SERVICE MANUAL

LCD37V6SY

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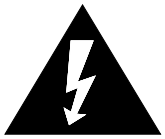
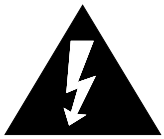
This manual is the latest at the time of printing, and does not include the modification which may be made after the printing, by the constant improvement of product.

1. CAUTION

CAUTION:
Use of controls, adjustments or procedures other than those specified herein may result in hazardous radiation exposure.



CAUTION: TO REDUCE THE RISK OF ELECTRICAL SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lighting flash with arrowhead symbol, with an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to the person.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING: TO REDUCE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

IMPORTANT SAFETY INSTRUCTIONS

CAUTION:

Read all of these instructions. Save these instructions for later use. Follow all Warnings and Instructions marked on the audio equipment.

1. Read Instructions- All the safety and operating instructions should be read before the product is operated.
2. Retain Instructions- The safety and operating instructions should be retained for future reference.
3. Heed Warnings- All warnings on the product and in the operating instructions should be adhered to.
4. Follow Instructions- All operating and use instructions should be followed.

FOR YOUR PERSONAL SAFETY

1. When the power cord or plug is damaged or frayed, unplug this television set from the wall outlet and refer servicing to qualified service personnel.
2. Do not overload wall outlets and extension cords as this can result in fire or electric shock.
3. Do not allow anything to rest on or roll over the power cord, and do not place the TV where power cord is subject to traffic or abuse. This may result in a shock or fire hazard.
4. Do not attempt to service this television set yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
5. Never push objects of any kind into this television set through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the television set.
6. If the television set has been dropped or the cabinet has been damaged, unplug this television set from the wall outlet and refer servicing to qualified service personnel.
7. If liquid has been spilled into the television set, unplug this television set from the wall outlet and refer servicing to qualified service personnel.
8. Do not subject your television set to impact of any kind. Be particularly careful not to damage the picture tube surface.
9. Unplug this television set from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

10.1. Do not place this television set on an unstable cart, stand, or table. The television set may fall, causing serious injury to a child or an adult, and serious damage to the appliance. Use only with a cart or stand recommended by the manufacturer, or sold with the television set. Wall or shelf mounting should follow the manufacturer's instructions, and should use a mounting kit approved by the manufacturer.

10.2. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.

PROTECTION AND LOCATION OF YOUR SET

11. • Do not use this television set near water ... for example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, etc.
    • Never expose the set to rain or water. If the set has been exposed to rain or water, unplug the set from the wall outlet and refer servicing to qualified service personnel.

12. Choose a place where light (artificial or sunlight) does not shine directly on the screen.

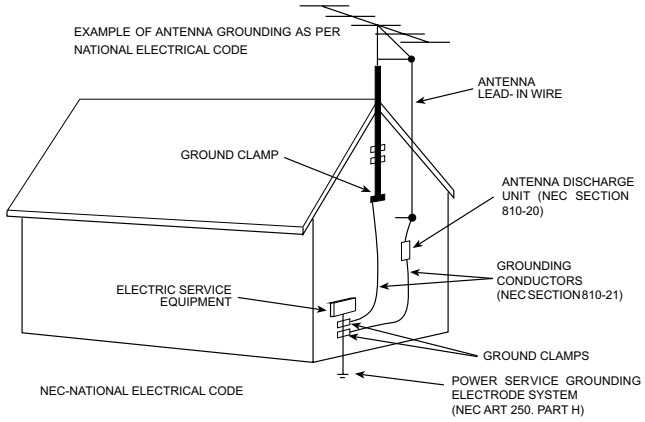
13. Avoid dusty places, since piling up of dust inside TV chassis may cause failure of the set when high humidity persists.

14. The set has slots, or openings in the cabinet for ventilation purposes, to provide reliable operation of the receiver, to protect it from overheating. These openings must not be blocked or covered.
    • Never cover the slots or openings with cloth or other material.
    • Never block the bottom ventilation slots of the set by placing it on a bed, sofa, rug, etc.
    • Never place the set near or over a radiator or heat register.
    • Never place the set in a "built-in" enclosure, unless proper ventilation is provided.

PROTECTION AND LOCATION OF YOUR SET

15.1. If an outside antenna is connected to the television set, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges, Section 810 of the National Electrical Code, NFPA No. 70-1975, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrode, and requirements for the grounding electrode.

EXAMPLE OF ANTENNA GROUNDING AS PER NATIONAL ELECTRICAL CODE INSTRUCTIONS


EXAMPLE OF ANTENNA GROUNDING AS PER NATIONAL ELECTRICAL CODE
ANTENNA LEAD- IN WIRE
GROUND CLAMP
ANTENNA DISCHARGE UNIT (NEC SECTION 810-20)
GROUNDING CONDUCTORS (NEC SECTION 810-21)
ELECTRIC SERVICE EQUIPMENT
GROUND CLAMPS
NEC-NATIONAL ELECTRICAL CODE
POWER SERVICE GROUNDING ELECTRODE SYSTEM (NEC ART 250. PART H)

15.2. Note to CATV system installer : (Only for the television set with CATV reception)

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

16. An outside antenna system should not be located in the vicinity of overhead power lines or other electric lights or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

17. For added protection for this television set during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna. This will prevent damage due to lightning and power-line surges.

OPERATION OF YOUR SET

18. This television set should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply at your home, consult your television dealer or local power company. For television sets designed to operate from battery power, refer to the operating instructions.
19. If the television set does not operate normally by following the operating instructions, unplug this television set from the wall outlet and refer servicing to qualified service personnel. Adjust only those controls that are covered in the operating instructions as improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the television set to normal operation.
20. When going on a holiday : If your television set is to remain unused for a period of time, for instance, when you go on a holiday, turn the television set "off" and unplug the television set from the wall outlet.

IF THE SET DOES NOT OPERATE PROPERLY

21. If you are unable to restore normal operation by following the detailed procedure in your operating instructions, do not attempt any further adjustment. Unplug the set and call your dealer or service technician.
22. Whenever the television set is damaged or fails, or a distinct change in performance indicates a need for service, unplug the set and have it checked by a professional service technician.
23. It is normal for some TV sets to make occasional snapping or popping sounds, particularly when being turned on or off. If the snapping or popping is continuous or frequent, unplug the set and consult your dealer or service technician.

FOR SERVICE AND MODIFICATION

24. Do not use attachments not recommended by the television set manufacturer as they may cause hazards.
25. When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
26. Upon completion of any service or repairs to the television set, ask the service technician to perform routine safety checks to determine that the television is in safe operating condition.

2. Product Specification

General description	**Model**	LCD37V6SY	**Class**	LCDTV	**Panel**	LCD (LG-PHILIPS)
	Level	ENTRY	**Launch date**	NOVE,2005		
	Approval	CB	**Market**	LATIN America		
	Appearance	feature				
		Color	Black			
		Back shell	Steamline flat arc			
		Sound box net	Metal net			
		Button	Bottom button			
	Artwork	Manual	English			
		Dimension(L*W*H)	1224x380x760(packed) ;		1090x280x720 (unpacked)	
		Container loading	20 feet:; 72		40 feet: 162	
	Weight		Gross weight: 37kg		Net weigh 32.5KG	
Features	Chassis	PW3300+PW118	**Function**			
	Panel Size	37"	Adaptive comber filter(3D)		Support 1280*1024	
	Aspect ratio	16：9			HDTV(1080i,720p)	
	TV system	NTSC	Dynamic skin correction		DVI(PC)	
	AV system	PAL/NTSC	Gama correction		AV stereo	
	Sound system	M/N	Progressive Scan		CCD,V-CHIP	
		MONO/BTSC-SAP			Black stretch;Blue stretch	
	Brightness	500Cd/m2	Film mode			
	Contrast	500：1	4 picture effects		DLTI;DCTI	
	Color	16.7M	4:3,16:9 wide screen; zoom		BTSC-SAP	
	Resolution	1366*768				
	View angle	176°(H)/176°(V)	**Socket**	Input	AV in*3(CVBS+R,L)	
	Respond time	16ms			S-Video in*1	
	OSD language	English,French,			YPbPr/YCbCr in*1	
		Spanish,Portuguese			VGA in*1	
	Channel	TV:69 CATV:125			DVI*1	
	Power supply	100~240V 50/60HZ		Output	AV(RCA) out* 1(CVBS+R,L)	
	Power consup.	180W			Headphone out*1	
	Sound power rate	2*8W			Woofer out	

3.Bom List

ITEM	SPEC.	QTY	LOCATION
H3-37V6AY-SY13			
T8-37V6AY-ANY	CONGRAGATE BD ASSEMBLY	1	
09-55C5V1-DTX	SMD.DIODE BZV55-C5V1	1	D506
09-0BAV70-ATX	SMD DIODE BAV70	1	D514
09-FM5817-STX	SMD.DIODE FM5817	4	D510;D511;D512;D513
09-LL4148-ATX	SMD. SWITCHING DIODE LL4148	8	D508;D507;D505;D504;D509;D503;D501;D516
10-HS18VC-DBX	DIODE 500MW 18HSC	1	D502
12-BT3904-0BX	SMD. TRANSISTOR MMBT3904LT1(NPN)	12	Q514;Q513;Q512;Q511;Q505;Q504;Q503;Q518;Q515;Q501;Q516;Q517
12-BT3906-0BX	SMD. TRANSISTOR MMBT3906LT1(PNP)	1	Q508
12-C144ET-0BX	SMD. TRANSISTOR PDTC144ET	2	Q510;Q509
12-D40N03-0BX	MOSFSET NTD40 NO3RG	2	Q507;Q506
13-12F675-00B	IC PIC12F675	1	U503
13-CS5211-G0B	IC CS5211G	1	U502
13-L7809C-D2B	IC L7809CD2T-TR (DDPAK)	1	U506
13-LD1117-50B	5.0V IC LD1117S50	1	U507
13-MSP345-0GB12	IC MSP34506-C12	1	U501
13-S35380-A0B	IC S-35380A	1	U508
13-TA2024-00B	IC TA2024	1	U505
13-TDA282-2DB	IC E-TDA2822D013TR	1	U511
13-TV6415-DDB	IC STV6415D	1	U504
19-BB0000-JTX	SMD. RES 0 OHM 1/10W +/-5%	11	R503;R579;R580;R594;R622;R618;R637;R648;R650;R649;L501
41-WJ0025-B00	WIRE BARE JUMPER 2.5MM	1	R643
19-BB0100-JTX	RES. SMD 10 OHM 1/10W +/-5%	2	R576;R575
19-BB0101-JTX	SMD. RES 100 OHM 1/10W +/-5%	7	R600;R599;R522;R641;R519;R508;R507
19-BB0102-JTX	SMD. RES 1K OHM 1/10W +/-5%	26	R663;R664;R568;R562;R559;R554;R551;R550;R546;R539;R538;R535;R533;R527;R630;R631;R509;R515;R516;R517;R518;R520;R521;R644;R645;R558
19-BB0103-JTX	SMD. RES 10K OHM 1/10W +/-5%	17	R557;R633;R632;R506;R510;R532;R541;R544;R549;R567;R569;R616;R615;R570;R574;R597;R598
19-BB0123-FTX	RES.SMD 12K 1/10W +/-1% 0805	1	R525
19-BB0151-JTX	RES. SMD 150 OHM 1/10W +/-5%	2	R504;R502
19-BB0153-JTX	SMD. RES 15K OHM 1/10W +/-5%	3	R590;R587;R584
19-BB0203-JTX	SMD. RES 20K OHM 1/10W +/-5%	2	R566;R571
19-BB0221-JTX	SMD. RES 220 OHM 1/10W +/-5% 0805	2	R501;R595
19-BB0222-JTX	SMD. RES 2.2K OHM 1/10W +/-5%	2	R572;R573
19-BB0223-JTX	SMD. RES 22K OHM 1/10W +/-5%	10	R555;R531;R540;R545;R585;R591;R588;R548;R528;R529
19-BB0302-FTX	RES.SMD 3K0HM 1/10W +/-1%	1	R526
19-BB0470-JTX	SMD. RES 47 OHM 1/10W +/-5%	1	R513
19-BB0473-JTX	SMD. RES 47K OHM 1/10W +/-5% 0805	6	R552;R537;R553;R560;R561;R536
19-BB0479-FTX	SMD. RES 4.7 OHM 1/10W +/-1%	2	R636;R635
19-BB0513-JTX	SMD. RES 51K OHM 1/10W +/-5%	1	R514
19-BB0680-JTX	SMD. RES 68 OHM 1/10W +/-5% 0805	1	R512
19-BB0681-JTX	SMD. RES 680 OHM 1/10W +/-5%	3	R589;R586;R592
19-BB0750-JTX	SMD. RES 75 OHM 1/10W +/-5%	5	R581;R577;R578;R583;R582
19-BB0820-JTX	RES. SMD 82 OHM 1/10W +/-5%	5	R556;R547;R543;R542;R534

ITEM	SPEC.	QTY	LOCATION
19-BB0822-FTX	RES.SMD 1/10W 8.2KOHM +/-1%	1	R565
19-CC0680-JTX	RES. SMD 68 OHM 1/8W +/-5%	1	R617
25-BCB100-M1X	CAP. ELEC 10 UF 16V +/-20%	19	C642;C634;C606;C617;C577;C565;C562;C558; C555;C534;C506;C516;C527;C528;C529;C530; C531;C532;C533
25-BCB101-M1X	CAP. ELEC 100 UF 16V +/-20%	14	C603;C547;C549;C556;C560;C563;C566;C569; C571;C600;C632;C633;C636;C637
25-BCB220-M1X	CAP. ELEC 22 UF 16V +/-20%	3	C602;C605;C608
25-BCB470-M1X	CAP. ELEC 47 UF 16V +/-20%	6	C553;C598;C552;C522;C514;C505
25-BDA471-M1X	CAP. ELEC 470 UF 25V +/-20%	6	C546;C545;C544;C537;C536;C535
25-BDB221-M1X	CAP. ELEC 220UF 25V +/-20%	3	C580;C583;C589
25-BFB339-M1X	CAP. ELEC 3.3 UF 50V +/-20%	1	C526
25-BFB479-M1X	CAP. ELEC 4.7 UF 50V +/-20%	2	C519;C520
28-AB0102-KBX	SMD. CAP 1000 PF 50V +/-10% B	2	C631;C630
28-BB0100-JCX	SMD. CAP. 10PF 50V +/-5%	2	C609;C616
28-BB0102-KBX	SMD CAP. 0.001UF 50V B 0805	4	C518;C517;C643;C644
28-BB0103-ZFX	SMD CAP. 0.01 UF 50V F 0805	5	C515;C513;C509;C504;C559
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	39	C550;C551;C554;C557;C635;C541;C561;C548; C542;C540;C539;C538;C525;C507;C638;C639; C614;C610;C607;C604;C601;C661;C662;C597; C595;C593;C588;C587;C564;C568;C570;C572; C573;C618;C574;C575;C579;C581;C582
28-BB0105-ZFX	SMD. CAP 1UF 50V +80%-20%	1	C594
28-BB0152-KBX	SMD CAP. 0.0015UF 50V B 0805	1	C523
28-BB0224-ZFX	SMD. CAP 0.22UF 50V +80%/-20% 0805	11	C502;C503;C501;C500;C625;C599;C596;C591; C590;C585;C584
28-BB0339-CCX	SMD. CAP 3.3PF 50V +/-0.25PF	2	C512;C511
28-BB0471-JCX	SMD. CAP 470PF 50V +/-5%	1	C521
28-BB0474-ZFX	SMD. CAP 0.47UF 50V +80% -20%	2	C586;C592
28-BB0560-JCX	SMD. CAP 56PF 50V +/-5%	2	C510;C508
28-BB0820-JCX	SMD. CAP. 82PF 50V +/-5%	4	C615;C613;C612;C611
28-BC0225-ZFX	SMD. CAP 2.2UF 16VDC +/-20%	2	C641;C640
28-BD0683-KBX	CAP.SMD 683 25V +/-10 0805 X7R	2	C578;C576
33-ELN201-NTX	CHIP BEAD 200 OHM +/-25%	12	L527;L526;L525;L524;L523;L522;L521;L520; L528;L531;L530;L529
33-GLL100-KTX	SMD. COIL 10 UH +/-10% CMI3216	9	L519;L515;L514;L513;L508;L507;L506;L503; L502
33-GLL220-KTX	SMD.COLL 22UH +/-10%	1	L504
33-PLL100-MTX	SMD COIL SPI127QR-100	1	L505
34-R100K2-10X	COIL CHOKE SG9006 10UH +/-20%	4	L509;L510;L512;L511
36-371620-00X	NETWORK FILTER NF0801	1	U509
40-D32V6N-MAF2X	P.C.B MAIN BD	1	
43-SFSS11-2DM	RELAY SF-SS-112DM	1	RELA1
45-OSC18M-4Y0	CRYSTAL 18.432M	1	X501
45-OSC32K-7Y0	CRYSTAL 32.768KHZ	1	X502
46-33079W-04X	PIN BASE *4 TJC3-4A	1	J507
46-33079W-09X	PIN BASE *9 TJC3-9A	1	J504
46-33333W-03X	PIN BASE	1	J501
46-35199W-05X	CONN.PH-5A 5PIN PITCH=2.0MM	1	J502
46-35199W-06X	.PH-6A 6PIN PITCH-2.0MM	1	J508
46-35199W-07X	CONN.PH-7A PITCH=2.0MM 7PIN	1	J503
46-40021H-04X	SPEAKER HS 4Y Y0509142.1	1	FOR J507

ITEM	SPEC.	QTY	LOCATION
46-39690W-64X	CONNECTOR 64PIN 32X2 2.0X2.0	1	J505
46-CC005T-09Q	HS 9P UL4007#24 50MM	1	FOR J504
46-FF010F-05001	HS 5P UL1185#26 100MM	1	FOR J502
46-FF055F-07001	HS 7P UL1007#24 550MM	1	FOR J503
47-RCA009-XX4	RCA SOCKET AV-3.2-3W-052	3	P501;P504;P506
47-SVI008-XX1	SOCKET DSW-506WT-L	1	P503
49-382630-BAT	BATT. CR2025	1	BT1
67-387200-3A0	HEAT SINK	1	FOR U505
T8-37V6AY-DIY	DIGITAL BD ASSEMBLY	1	
09-0BAV99-ATX	HIGH SPEED DOUBLE DIODE BAV99	20	D023;D022;D021;D020;D019;D018;D017;D016;D015;D014;D013;D011;D010;D008;D007;D002;D003;D006;D024;D009
09-BAV70L-ATX	SMD. DIODE BAV70LT1(SOT-23) 215	2	D012;D004
12-BT3906-0BX	SMD. TRANSISTOR MMBT3906LT1(PNP)	3	Q008;Q005;Q006
12-C144ET-0BX	SMD. TRANSISTOR PDTC144ET	4	Q002;Q007;Q003;Q004
13-0024LC-21B	IC 24LC21-SOIC8(WRITE)	2	U001;U018
13-AIC108-4PB	IC AIC1084PM	1	U015
13-LD1117-18B	1.8V REGULATOR IC LD1117S18TR	1	U006
13-128168-A6B	DDR SDRAM M13S128168A	2	U012;U013
13-63LVDM-83B	IC THC63LVDM83R	1	U003
13-74AHCT-08B	AND GATE 74AHCT08PW	1	U019
13-EF4052-BTB	IC HEF4052BT(D)	1	U005
13-IC1084-25B	IC 2.5V 5A AIC1084-25CM	1	U016
13-IC1084-CMB	IC AIC1084-33CM 3.3V (TO-263)	1	U014
13-IRF731-40B	IC IRF7314	1	U004
13-LD1117-33B	IC LD1117 3.3V	1	U007
13-M24C32-MNB	IC SM M24C32-WMN6P(ST00) R	1	U021
13-PT7809-STB	IC PT7M7809ST	1	U09
13-PW1181-0LB	DEINTERLACER AND SCALER PW118-10	1	U002
13-PW3300-10B	IC PW3300-10	1	U008
13-SRV054-CTB	IC SRV05-4 TCT	2	D001;D005
13-AL008D-70BT2	FLASH 8M S29AL008D70TFI02	1	U020
19-AB0000-JTX	RES SMD 0 OHM 1/10W +/-5% 0603	27	R214;R193;R196;R149;R070;R086;R209;R198;R024;R028;R127;R129;R128;R125;R088;R091;R107;R114;R227;R067;R066;R229;R228;R065;R063;R068;R148
19-AB0391-FTX	SMD. RES 390 OHM 1/10W +/-1% 0603	1	R112
19-AB0100-JTX	RES SMD 10 OHM 1/10W +/-5%	1	R221
19-AB0101-JTX	RES SMD 100 OHM 1/10W 0603	1	R174
19-AB0102-JTX	RES SMD 1K OHM 1/10W 0603	7	R175;R102;R160;R103;R215;R176;R092
19-AB0103-JTX	RES SMD 10K OHM 1/10W 0603	17	R032;R130;R089;R084;R078;R132;R152;R153;R165;R077;R030;R166;R167;R034;R027;R231;R076
19-AB0105-JTX	RES SMD 1M OHM 1/10W 0603	2	R218;R073
19-AB0152-JTX	SMD. RES 1.5K OHM 1/10W +/-5% 0603	2	R069;R071
19-AB0155-JTX	SMD. RES 1.5M OHM 1/10W +/-5% 0603	1	R116
19-AB0201-JTX	SMD. RES 200 OHM 1/10W +/-5% 0603	1	R018
19-AB0202-JTX	SMD. RES 2K OHM 1/10W +/-5% 0603	2	R163;R164
19-AB0220-JTX	SMD RES 22 OHM 1/10W 0603	11	R009;R010;R012;R013;R015;R037;R100;R101;R004;R003;R001
19-AB0221-JTX	RES SMD 220 OHM 1/10W 0603	1	R216

ITEM	SPEC.	QTY	LOCATION
19-AB0222-JTX	RES SMD 2.2K OHM 1/10W 0603	2	R147;R146
19-AB0223-JTX	SMD. RES 22K OHM 1/10W +/-5% 0603	21	R061;R053;R052;R051;R050;R049;R225;R047; R226;R046;R222;R223;R054;R048;R060;R031; R059;R058;R057;R056;R055
19-AB0243-JTX	SMD. RES 24K OHM 1/10W +/-5% 0603	1	R137
19-AB0271-JTX	SMD. RES 270 OHM 1/10W +/-5% 0603	1	R217
19-AB0332-JTX	SMD RES 3.3K OHM 1/10W 0603	6	R122;R131;R140;R150;R168;R171
19-AB0392-JTX	SMD. RES 3.9K OHM 1/10W +/-5%	5	R135;R136;R219;R220;R036
19-AB0470-JTX	RES SMD 47 OHM 1/10W +/-5%0603	20	R099;R075;R081;R134;R154;R126;R133;R085; R087;R123;R124;R151;R139;R138;R121;R120; R119;R118;R083;R117
19-AB0472-JTX	RES SMD 4.7K OHM 1/10W 0603	10	R115;R144;R145;R224;R006;R007;R008;R029; R033;R093
19-AB0473-JTX	SMD. RES 47K OHM 1/10W 0603	7	R041;R026;R045;R044;R040;R042;R043
19-AB0682-JTX	RES SMD 6.8K OHM 1/10W 0603	1	R025
19-AB0750-JTX	SMD. RES 75 OHM 1/10W 0603	13	R011;R190;R187;R173;R170;R169;R157;R156; R155;R002;R005;C195;R014
19-CD0000-JTX	RES.SMD 0 OHM 1206	4	L029;L027;L025;R022
23-A08220-JBX	NETWORK RES. 22 OHM +/-5%	16	RP017;RP023;RP022;RP021;RP024;RP025; RP019;RP031;RP020;RP032;RP018;RP030; RP029;RP028;RP027;RP026
23-A08470-JBX	CHIP ARRAY RES. 47 OHM +/-5% 0603*4	24	RP035;RP037;RP047;RP046;RP045;RP044; RP043;RP042;RP041;RP040;RP039;RP038; RP034;RP033;RP011;RP006;RP007;RP009; RP036;RP005;RP004;RP003;RP002;RP001
28-AB0102-JCX	SMD. CAP 1000PF 50V +/-5% 0603	5	C215;C164;C191;C184;C176
28-AB0103-ZFX	CAP.SMD 10NF 50V +80-20% 0603	2	C019;C018
28-AB0104-ZFX	CAP. SMD 0.1UF 50V +80%~-20% F	1	C216
28-AB0120-JCX	SMD. CAP 12 PF 50VDC 0603 +/-5%	3	C180;C179;C178
28-AB0180-JCX	SMD. CAP 18 PF 50V +/-5% 0603	8	C158;C202;C201;C083;C084;C085;C200;C157
28-AB0224-ZFX	CAP.SMD 0.22UF 50V +80-20%0603	6	C173;C174;C177;C187;C192;C196
28-AB0392-KBX	SMD. CAP 3900 PF 50VDC +/-10% 0603	1	C159
28-AB0393-ZFX	SMD. CAP 0.039 UF 50V +80%-20%	1	C160
28-AB0471-JCX	CAP.SMD 470PF 50V +/-5% 0603	1	C214
28-AC0105-ZFX	SMD. CAP 1 UF 16VDC +80%/-20%	2	C213;C217
28-AD0104-ZFX	SMD CAP 0.1UF 25V +80-20% 0603	128	C062;C063;C065;C064;C080;C082;C077;C168; C166;C073;C074;C075;C109;C105;C091;C104; C076;C066;C079;C078;C172;C054;C055;C056; C057;C058;C059;C060;C061;C087;C088;C089; C090;C096;C170;C167;C169;C053;C086;C098; C099;C100;C101;C102;C072;C068;C069;C070; C071;C095;C114;C118;C119;C097;C081;C013; C023;C024;C014;C001;C015;C016;C103;C092; C093;C094;C130;C129;C128;C127;C126;C125; C124;C123;C122;C121;C133;C148;C067;C171; C120;C131;C163;C156;C155;C154;C151;C150; C183;C186;C185;C175;C149;C132;C181;C182; C165;C051;C052;C025;C005;C006;C007;C147; C032;C134;C021;C136;C137;C138;C139;C140; C022;C046;C048;C050;C008;C146;C145;C144; C141;C031;C030;C029;C028;C027;C026;C002
28-RA0107-MAX	SMD. CAP 100 UF 10V +/-20%	6	C115;C111;C110;C135;C152;C116
28-RC0106-MAX	SMD. CAP 10 UF 16V +/-20%	13	C039;C040;C038;C017;C020;C045;C044;C043; C041;C042;C037;C036;C035
28-RC0226-MAX	SMD. CAP 22 UF 16V +/-20%	2	C033;C034

ITEM	SPEC.	QTY	LOCATION
28-RC0476-MAH	SMD. CAP 47 UF 16V +/-20%	2	C047;C049
28-RD0477-MAX	ALUMINIUM CAP. 470 UF 25V +/-20%	2	C107;C108
33-ELN221-NTX	CHIP BEAD 220 OHM +/-25%	1	L004
33-ELN301-NTX	BEAD CHIP HB-1T2012-301 2012	2	R202;R201
33-GLN121-NTX	CHIP BEAD 120 OHM +/-25%	27	L002;L008;L024;L026;L028;L015;L017;L005; L019;L017A;L001A;F001;L018;L016;L013;L009;L 003;L020;L001;L014A;L020A;L018A;L016A; L014;L013A;L006;L007
33-KLN121-NTX	CHIP BEAD 120 OHM +/-25%	6	L010;L012;L021;L022;L023;L011
33-KLN181-NTX	SMD BEAD CHIPHB 180 OHM	2	R141;R142
33-KLN601-NTX	CHIP BEAD 600 OHM +/-25%	3	L030;L032;L031
40-D32V6N-DIE4X	P.C.B. DIGIBOARD BD	1	
45-OSC14M-3Y2	CRYSTAL 14.31818MHZ	1	Y001
45-OSC27M-0Y3	CRYSTAL 27MHZ	1	Y002
46-33079W-09X	PIN BASE *9 TJC3-9A	1	J008
46-35199W-04X	CONN.PH-4A 4PIN PITCH=2.0MM	2	J009;J011
46-35199W-03X	PIN BASE *3 PITCH=2.0MM	1	P003(PIN3 TO PIN5)
46-38612W-30X	PIN BASE DF14-30P(WF) 1.25PITCH	1	P002
46-39689W-64X	CONNECTOR	1	J005
46-FF025F-04001	HS 4P UL1185#26 250MM	1	FOR J009
47-DVI001-KX0	DVI SOCKET KL-DIV024-04A	1	P001
47-EAR005-XX0	EARPHONE SOCKET CK3-3.5-3WK-E	1	J002
47-RCA009-XX4	RCA SOCKET AV-3.2-3W-052	1	J006
47-RCA123-XX0	RCA SOCKET AV-3.2-2W-G6	2	J004;J003
47-RCA125-XX1	RCA SOCKET AV-3.2-3W-051	1	J007
47-VGA004-XX0	VGA SOCKET D-SUB-15S(BLACK)	1	P004
67-387190-0A0	HEAT SINK	1	FOR U002
67-387190-1A0	HEAT SINK	2	FOR U012;FOR U013
67-H42094-0A0	HEAT SINK	1	FOR U008
19-AB0751-FTX	SMD. RES 750 OHM 1/10W +/-1%	1	R111
T8-37V6AY-EAY	ASS'Y-EARPHONEBD	1	
26-EBP104-ZFX	CAP. CER 0.1UF 50V +80%/-20%	1	C21
40-D32V6N-EAC1X	P.C.B EA BD	1	
46-35199W-06X	.PH-6A 6PIN PITCH-2.0MM	1	J1
47-EAR002-XX0	EARPHONE SOCKET CK3-3.5-9WK-B	1	J2
46-FF080T-06X	HS Y0509152.1 6Y 80CM	1	FOR J1
T8-37V6AY-FBY	FRONT CONTROL BD ASSEMBLY	1	
02-IRR001-XX5	IR RECEIVER MODULE AT156A	1	IR1
11-SA1015-YBX	TRANSISTOR ST2SA1015Y (PNP)	1	Q1
14-LED03R-XX0	LED RED HFR303J(R)(3MM)	1	LED1
18-CB0102-JNX	RES. C.F. 1K OHM 1/6W +/-5%	2	R10;R11
18-CB0152-JNX	RES. C.F. 1.5K OHM 1/6W +/-5%	2	R6;R9
18-CB0221-JNX	RES. C.F. 220 OHM 1/6W +/-5%	2	R1;R2
18-CB0222-JNX	RES. C.F. 2.2K OHM 1/6W +/-5%	2	R8;R5
18-CB0512-JNX	RES. C.F. 5.1K OHM 1/6W +/-5%	2	R7;R4
25-BCB100-M1X	CAP. ELEC 10 UF 16V +/-20%	1	C5
25-BFB109-M1X	CAP. ELEC 1 UF 50V +/-20%	1	C3
26-EBP101-JCX	CAP. CER 100PF 50V +/-5% CH	4	C8;C7;C2;C1
26-EBP104-ZFX	CAP. CER 0.1UF 50V +80%/-20%	2	C4;C6
34-A101K5-1IX	COIL CHOKE 100 UH +/-10% SPT0406	1	L1

ITEM	SPEC.	QTY	LOCATION
40-LD32V6-FBC1X	P.C.B.FRONT CTL BD	1	
41-WJ0075-B00	WIRE BARE JUMPER 7.5MM	1	J4
41-WJ0080-B00	WIRE BARE JUMPER 8 MM	1	J3
41-WJ0100-B00	WIRE BARE JUMPER 10MM	1	J2
46-35184W-02X	PIN BASE *2 TJC1-2A	2	P801;P802
46-35199W-07X	CONN.PH-7A PITCH=2.0MM 7PIN	1	P1
48-POW001-XX0	SWITCH POWER KDC-A11 B2	1	SW801
48-TAC002-XX0	TACT SWITCH	6	SW1;SW2;SW3;SW4;SW5;SW6
57-LEDH05-000	LED BRACKET	1	
T8-37V6AY-TUY	TUNER BD ASSEMBLY	1	
07-457FF5-TB1G	TUNER TMQH6-019A	1	TUN1
09-LL4148-ATX	SMD. SWITCHING DIODE LL4148	1	D701
11-SC1815-YBX	TRANSISTOR 2SC1815-Y (NPN)	1	Q36
12-BT3904-0BX	SMD. TRANSISTOR MMBT3904LT1(NPN)	3	Q701;Q702;Q703
13-LD1117-50B	5.0V IC LD1117S50	1	U702
13-MC3406-3AB	IC MC34063AD (SO-8)	1	U8
19-BB0000-JTX	SMD. RES 0 OHM 1/10W +/-5%	2	R726;R720
19-BB0101-JTX	SMD. RES 100 OHM 1/10W +/-5%	3	R711;R712;R718
19-BB0103-JTX	SMD. RES 10K OHM 1/10W +/-5%	1	R707
19-BB0104-JTX	SMD. RES 100K OHM 1/10W +/-5% 0805	2	R723;R710
19-BB0109-JTX	SMD. RES 1 OHM 1/10W +/-5% 0805	2	R709;R714
19-BB0122-FTX	SMD. RES 1.2K OHM 1/10W +/-1% 0805	1	R715
19-BB0181-JTX	SMD. RES 180 OHM 1/10W +/-5%	1	R704
19-BB0221-JTX	SMD. RES 220 OHM 1/10W +/-5% 0805	2	R713;R705
19-BB0223-JTX	SMD. RES 22K OHM 1/10W +/-5%	3	R701;R702;R706
19-BB0303-FTX	RES.SMD 30K 0HM 1/10W +/-1%	1	R716
19-BB0331-JTX	SMD. RES 330 OHM 1/10W +/-5% 0805	1	R708
19-BB0471-JTX	SMD. RES 470 OHM 1/10W +/-5%	1	R703
25-BCB101-M1X	CAP. ELEC 100 UF 16V +/-20%	4	C716;C718;C702;C710
25-BFB220-M1X	CAP. ELEC 22 UF 50V +/-20%	1	C713
25-BFB470-M1X	CAP. ELEC 47 UF 50V +/-20%	1	C714
25-BDB100-M1X	CAP. ELEC 10 UF 25V +/-20%	1	C703
28-BB0103-ZFX	SMD CAP. 0.01 UF 50V F 0805	1	C707
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	7	C701;C719;C717;C715;C709;C711;C712
28-BB0334-ZFX	SMD. CAP 0.33UF 50V +80%/-20%	1	C724
28-BB0470-JCX	SMD CAP. 47 PF 50V C 0805	3	C705;C722;C706
28-DC0107-MTX	TANTALUM CAP. 100 UF 16VDC +/-20%	1	C708
33-ELM100-KTX	SMD. COIL 10UH +/-10% 0805	1	L702
33-GLL100-KTX	SMD. COIL 10 UH +/-10% CMI3216	1	L705
34-R101K2-1BX	COIL CHOKE 100 UH +/-10%	2	L703;L704
34-R120J2-0EX	COIL PL - 12 UH +/-5%	1	L701
34-R221J2-0EX	COIL PL - 220 UH +/-5%	1	LN9
40-D32V6N-TUC2X	P.C.B TUNER BD	1	
46-35199W-04X	CONN.PH-4A 4PIN PITCH=2.0MM	1	J702
46-35199W-05X	CONN.PH-5A 5PIN PITCH=2.0MM	1	J701
T8-37V6AY-OTY	OTHERPARTS	1	
46-AK100F-02F01	HS 2P UL1617#22 TJC1-2Y L=1000MM	1	
47-PWS014-XX8	POWER SOCKET 03GEEW3ES-R(04NW2)	1	
T8-37V6AY-FCN	FRONT CABINET ASSEMBLY	1	

ITEM	SPEC.	QTY	LOCATION
25-DFB229-M1X	CAP. ELEC 2.2 UF 50V +/-20% BP	2	
35-FB0927-00X	MAGNETISM RING ZCAT2035-0930A	1	
42-61308G-XX2	SPEAKER YDP613-22A	2	
42-G3508F-XX2	SPEAKER 8 OHM 8W	2	
46-40022H-02X	SPEAKER HS 2Y Y0509142.3	2	
4A-LCD37T-LG1	37"LPL TFT SCREEN LC370WX1-SL01	1	
T8-37V6AY-FCNZ	ASS'Y-ARFFRONTCABINET	1	
55-804010-0UA1B	FRONT CABINET	1	
56-707220-0HA4R	POWER KNOB	1	
56-707240-0HA4R	PUSH BOTTON	1	
57-805490-0HC1B	DECORATE BAR	1	
46-40019H-30X	LVDS 19CM 3Y	1	
46-KF080F-12X01	INVERTER Y0509142.2	1	
81-LC32A7-PW1	32"SMPS JSK3220-007A	1	
T8-37V6AY-MTY	ASS'Y-METAL	1	
T8-37V6AY-PAN	PACKING ASSEMBLY	1	
T8-37V6AY-PANZ	ASS'Y-ARFPACKINGPARTS	1	
72-26V6SY-E001A	OPERATION MANUAL	1	
06-015W33-A003X	REMOTE CONTROLLER RC1113323	1	
51-PC0220-0YU08	POWER CORD	1	
T8-37V6AY-RCN	REAR CABINET ASSEMBLY	1	
T8-37V6AY-BSY	ASS'Y - BASE	1	
T8-37V6AY-BSYZ	ARFBASE ASSEMBLY	1	
V8-L37PS1-01F01	SOFTWARE CODE	1	FOR U020
V8-L37PS1-01D01	SOFTWARE CODE	1	FOR U018
V8-L37PS1-01D02	SOFTWARE CODE	1	FOR U001
V8-L37PS1-01M01	SOFTWARE CODE	1	FOR U503

4. ALIGNMENT PROCEDURE

To enter the Factory Mode

1. Press Vol.- key to reduce the volume to 0.
2. Press the MUTE key and the password “9735” continuously in 5 seconds to enter the Factory Mode.
3. Press Pro.-/Pro.+ key to select the option, and press Vol.+ to confirm or change the value.

To enter the Service Menu

1. Press Vol.- key to reduce the volume to 0.
2. Press the MUTE key and the password “3175” continuously in 5 seconds to enter the Service Menu.

1. Adjustment of White Balance:

1) Adjustment in VGA mode:

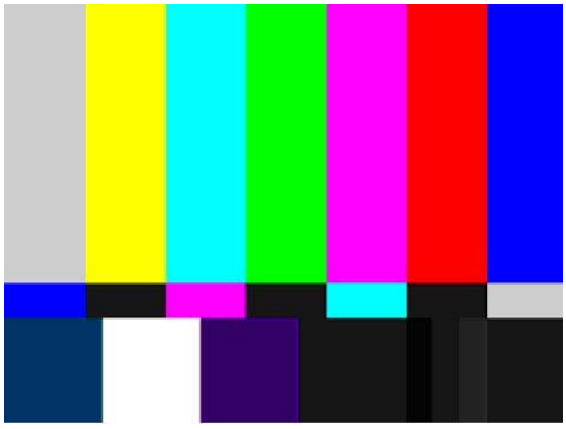
A. Input 11 Gray Scales Patten from Chroma 2225.
B. In user menu, set Warmth to Normal and set Picture Preset to Natural.
C. Enter the Balance menu in Factory Mode, and select VGAcalbr and press Vol.+ key to activate.
D. Change the input signal to Full White Pattern. And then measure the balance in the center area with a Color Analyzer. (Note: the distance between the screen and the sensor is 25-30 cm)
E. Adjust the value of R Gain and B Gain until the color coordinate is x=299±15, y=215±15.

2) Adjustment in TV mode:

A. Input Full White signal from PM5418 or 54200 generator.
B. Enter the Balance menu of Factory Mode, and change the input source to VID.
C. Then connect the input signal to the corresponding port with a video wire.
D. And then measure the balance in the center area with a Color Analyzer. (Note: the distance between the screen and the sensor is 25-30 cm)
E. Adjust the value of R Gain and B Gain until the color coordinate is x=285±15, y=294±15.

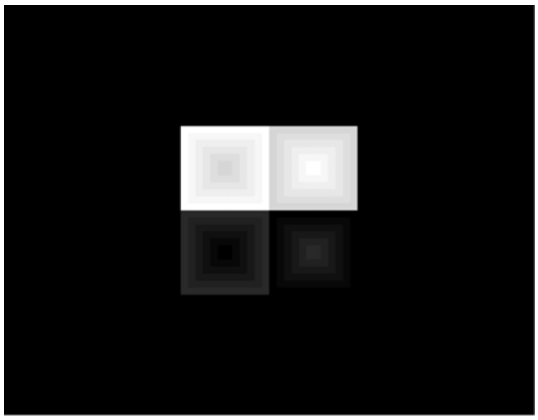
3) Adjustment in YPbPr mode:

A. Input the signal (Timing 35, PATTERN 36 and 480I) as below from Chroma2327.



B. In factory mode, enter the Balance menu and change the input source to HD. And press Pro.-/+ key to select YUVcalbr and press Vol.+ key to activate

C. Input the pattern as below from a DVD player.



D. Enter the ADCBal. Menu, and adjust Y/G Offset until the darkest scale is just obvious. Then adjust Y/G Gain until the brightest scale is just obvious.

E. Input a 10 Gray Scale signal (Timing 35, PATTERN 46, 480I) from Chroma 2327, and then measure the balance in the center area with a Color Analyzer. (Note: the distance between the screen and the sensor is 25-30 cm)

F. Adjust the value of R Gain and B Gain until the color coordinate is x=285±15, y=294±15.

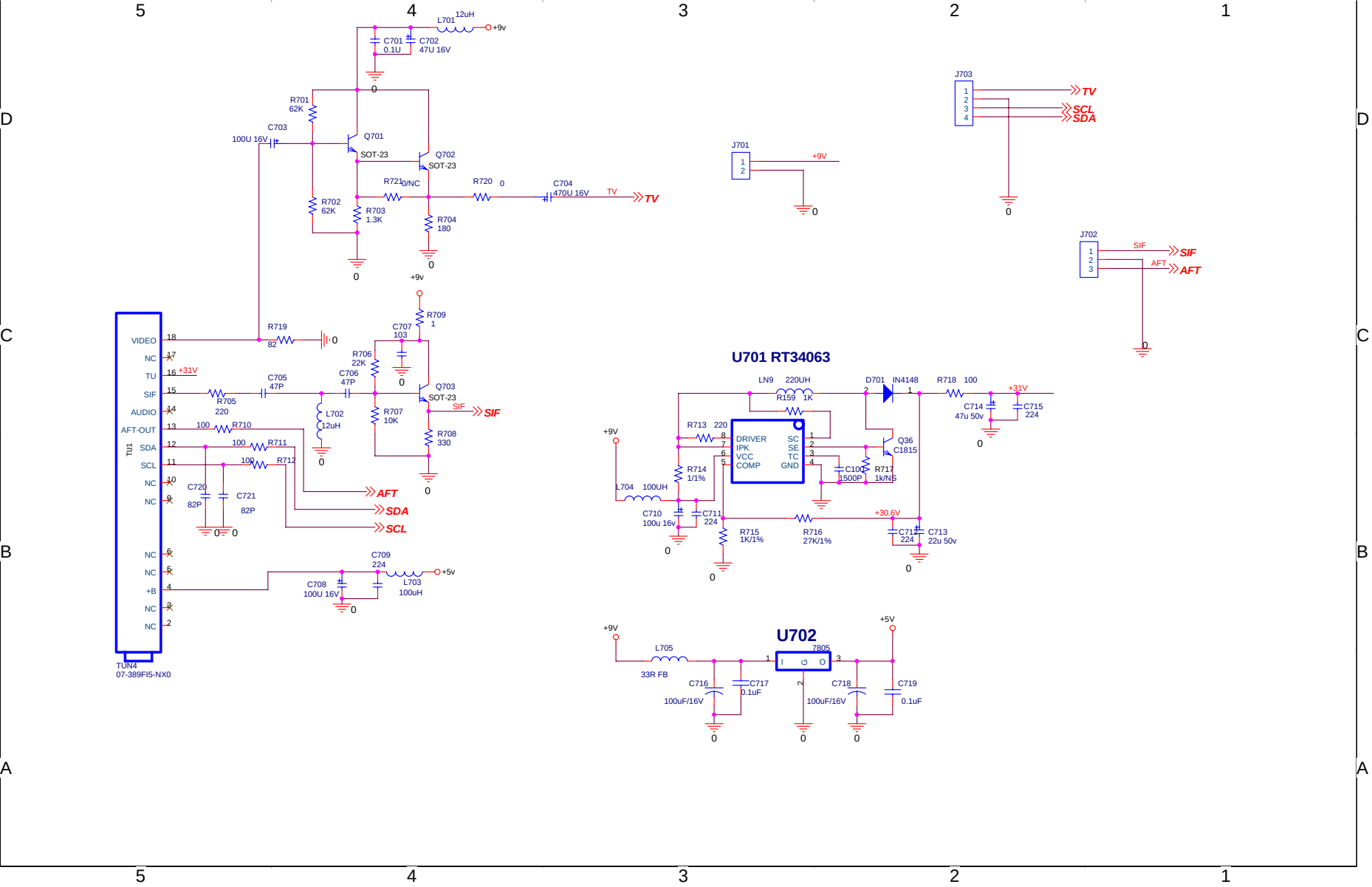
2. Check the settings in the Factory mode:

Note：a. After the first power-on or downloading, please enter the factory mode and activate the Reset Data function.

b. Before delivery, enter the factory menu and select All For User in System menu. And then press Vol.+ key to activate.

Item	Default	Description
System menu		
GM		--
Reset User D		Reset user Data
Language		OSD Language
ServiceM		Service menu
Reset Data		Reset all the Data
All For User		Set user Data to defaulted values before delivery
Power On		Power on mode after the unit is switched up: (0—power on directly, 1—remember the last state before powered off, 2—standby after powered on)
Factory		Select the method of entering the factory menu (ON—press PC key to enter directly, OFF—must input password)
Balance menu		
Source		Input source selection
R Offset		R offset for black balance adjustment

G Offset		G offset for black balance adjustment
B Offset		B offset for black balance adjustment
R Gain		R Gain for white balance adjustment
G Gain		G Gain for white balance adjustment
B Gain		B Gain for white balance adjustment
VGAcalbr		Color calibration for VGA source
YUVcalbr		Color calibration for other sources
TvGeom menu		
TvHPos		Horizontal position of image in TV mode
TvHsize		Horizontal size of image in TV mode
TvVPos		Vertical position of image in TV mode
TvVSize		Vertical size of image in TV mode
Clear Screen		Not be used temporarily
Shift		Not be used temporarily
Sound menu		
CurveP1P		Sound curve X1
CurveP1V		Sound curve Y1
CurveP2P		Sound curve X2
CurveP1V		Sound curve Y2
Project menu		
BOM		BOM number
Chassis		Chassis number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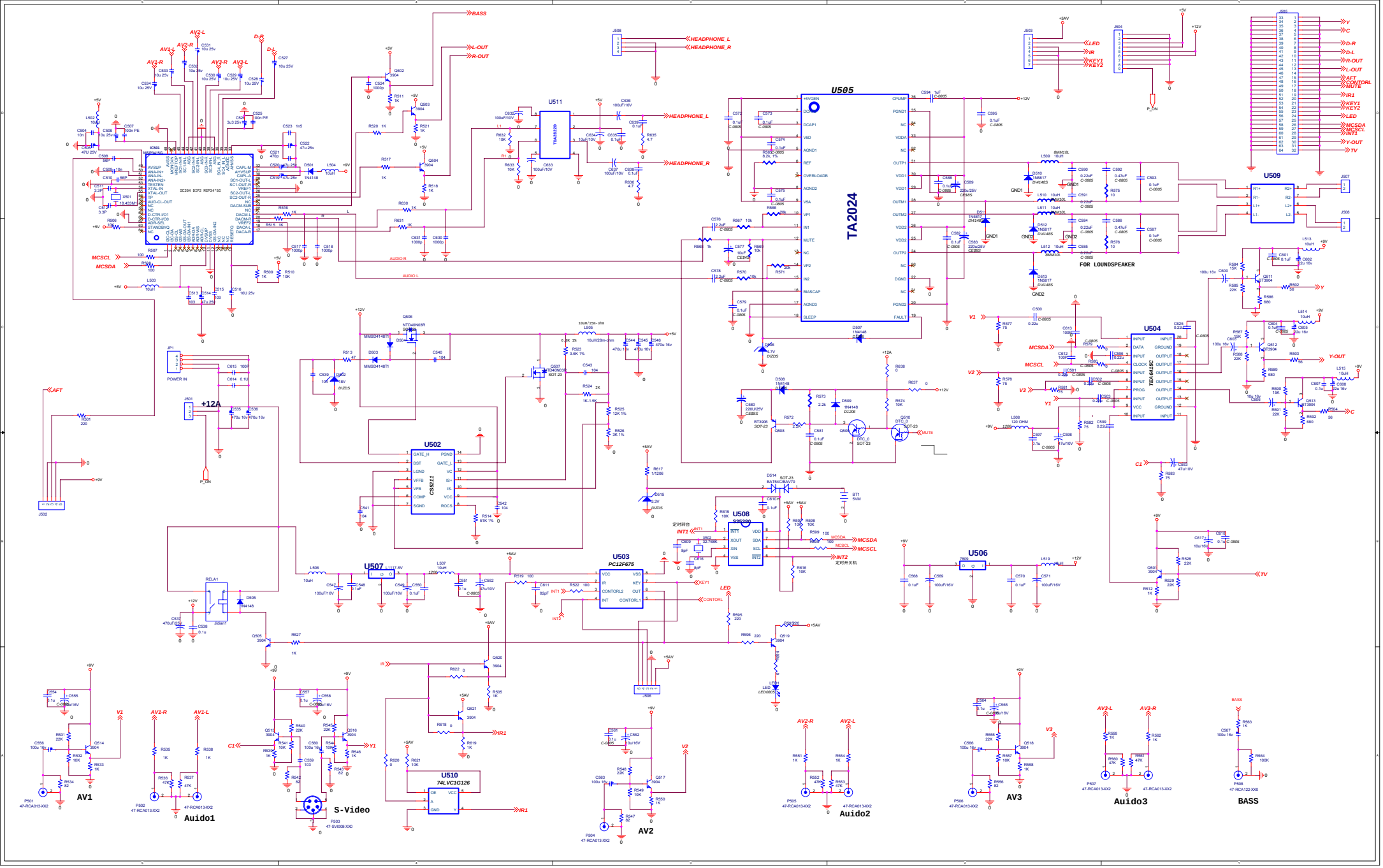
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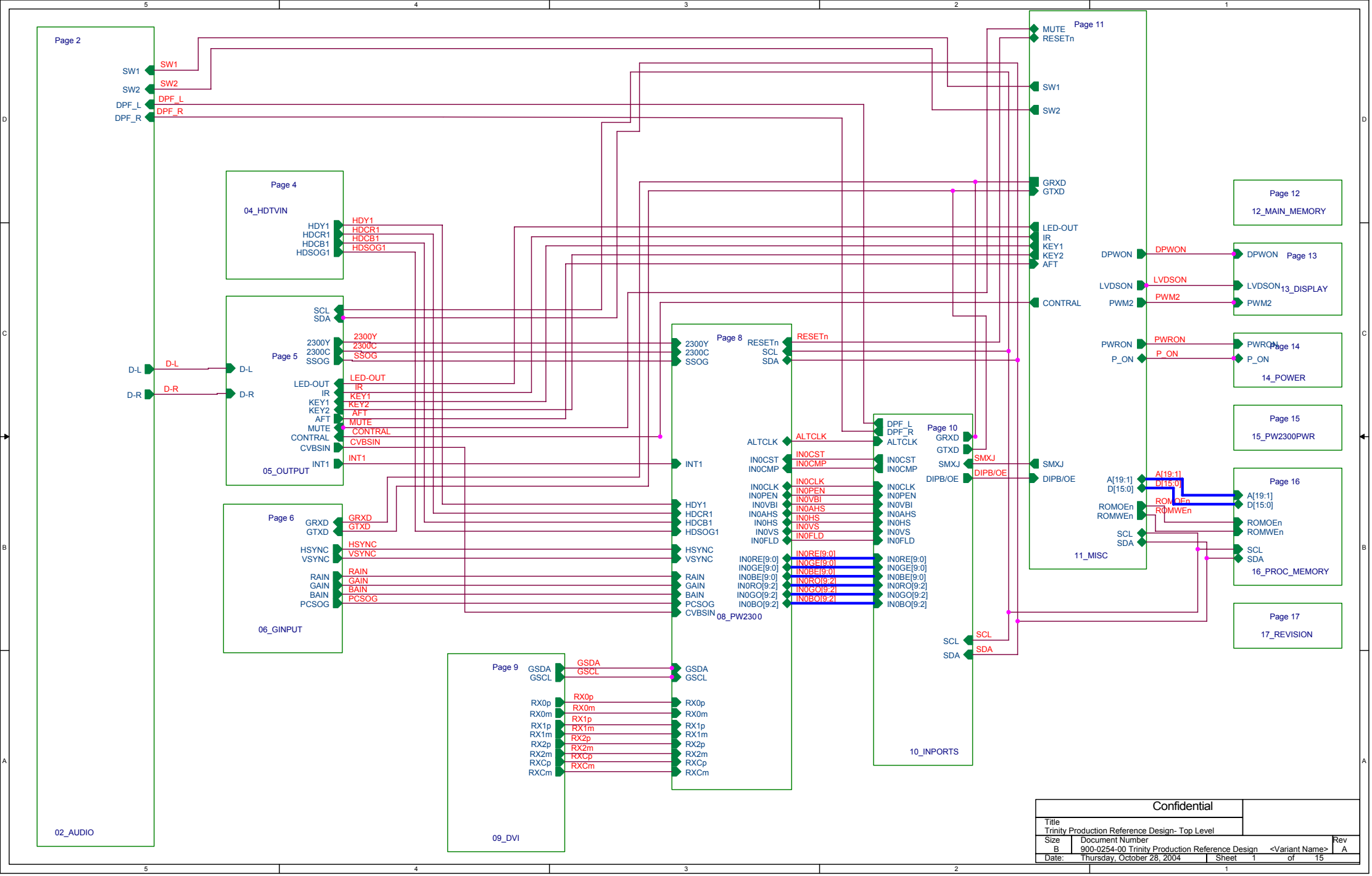
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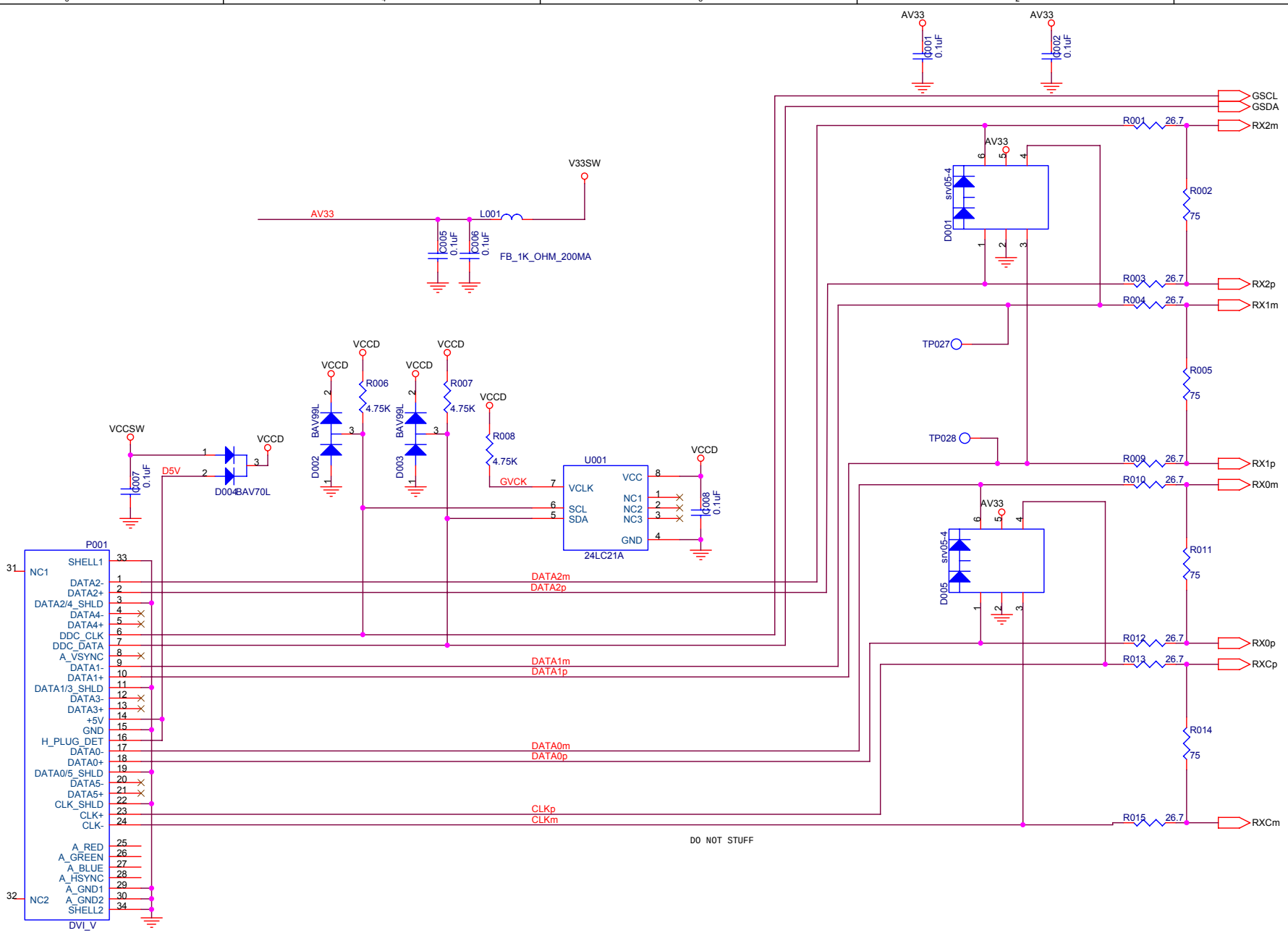
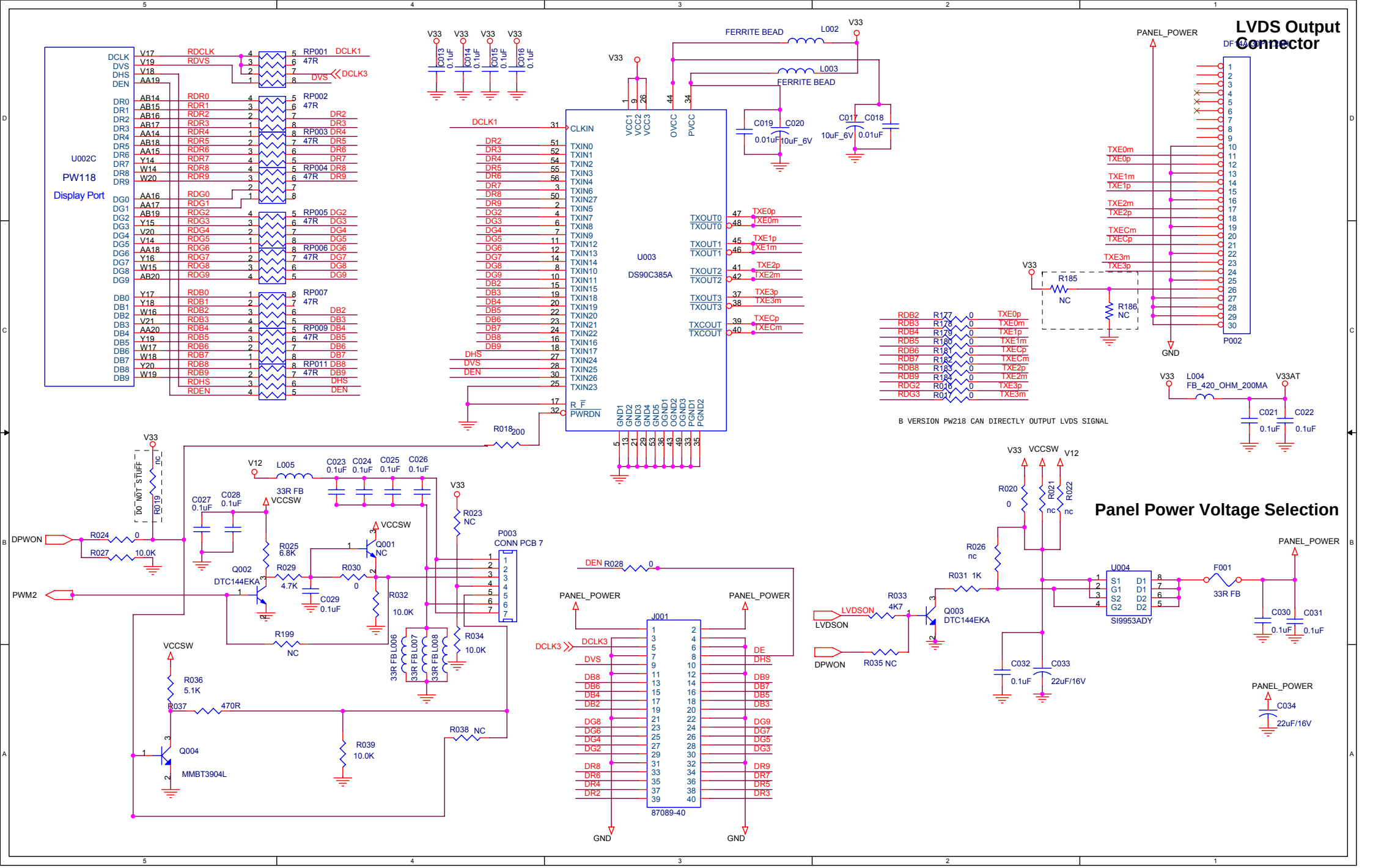
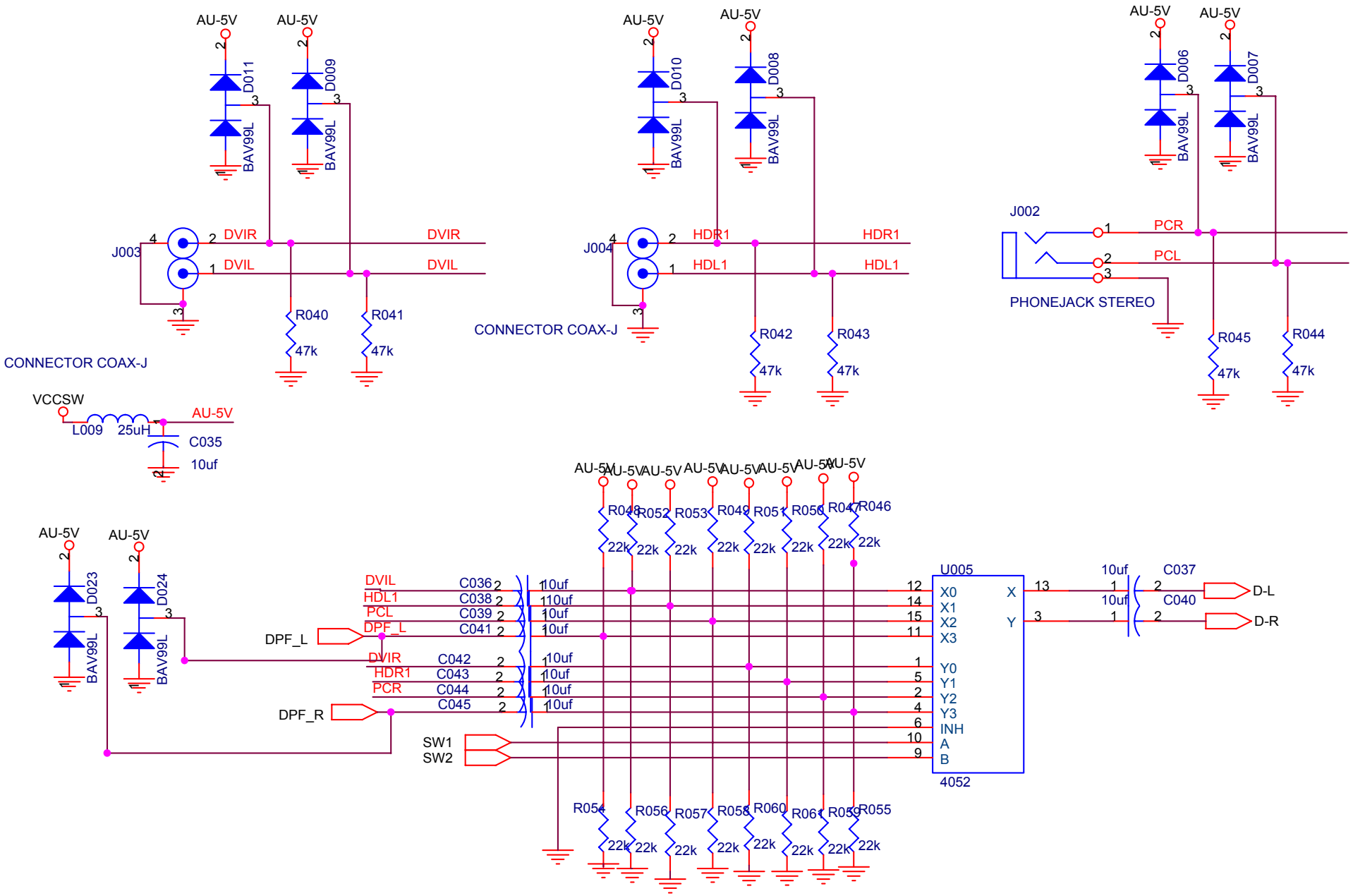

AV33
C001 0.1uF
AV33
C002 0.1uF
GSCL
GSDA
R001 26.7
RX2m
AV33
srv05-4
D001
R002
75
R003 26.7
RX2p
R004 26.7
RX1m
TP027
R005
75
TP028
R009 26.7
RX1p
R010 26.7
RX0m
AV33
srv05-4
D005
R011
75
R012 26.7
RX0p
R013 26.7
RXCp
R014
75
R015 26.7
RXCm
V33SW
AV33
L001
C005 0.1uF
C006 0.1uF
FB_1K_OHM_200MA
VCCD
VCCD
VCCD
VCCD
R006
4.75K
R007
4.75K
R008
4.75K
BAV99L
D002
BAV99L
D003
VCCSW
C007 0.1uF
D5V
D004BAV70L
VCCD
U001
VCC
VCLK
SCL
SDA
NC1
NC2
NC3
GND
24LC21A
C008 0.1uF
VCCD
P001
SHELL1
NC1
DATA2-
DATA2+
DATA2/4_SHLD
DATA4-
DATA4+
DDC_CLK
DDC_DATA
A_VSYNC
DATA1-
DATA1+
DATA1/3_SHLD
DATA3-
DATA3+
+5V
GND
H_PLUG_DET
DATA0-
DATA0+
DATA0/5_SHLD
DATA5-
DATA5+
CLK_SHLD
CLK+
CLK-
A_RED
A_GREEN
A_BLUE
A_HSYNC
A_GND1
NC2
A_GND2
SHELL2
DVI_V
DATA2m
DATA2p
DATA1m
DATA1p
DATA0m
DATA0p
CLKp
CLKm
DO NOT STUFF


LVDS Output Connector
Panel Power Voltage Selection
U002C
PW118
Display Port
U003
DS90C385A
P002
P003
CONN PCB 7
J001
87089-40
SI9953ADY
B VERSION PW218 CAN DIRECTLY OUTPUT LVDS SIGNAL
PANEL_POWER
LVDSON
DPWON
PWM2
VCCSW
GND



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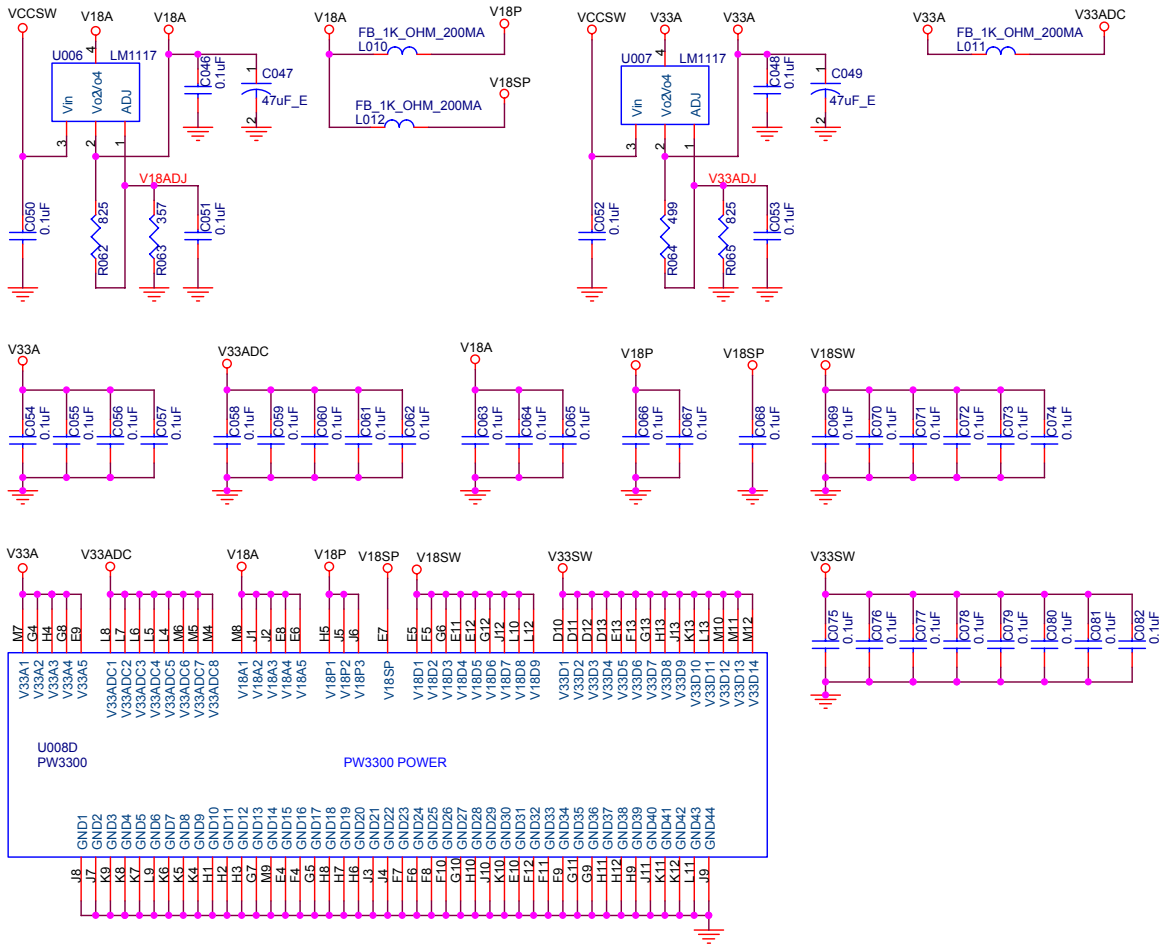
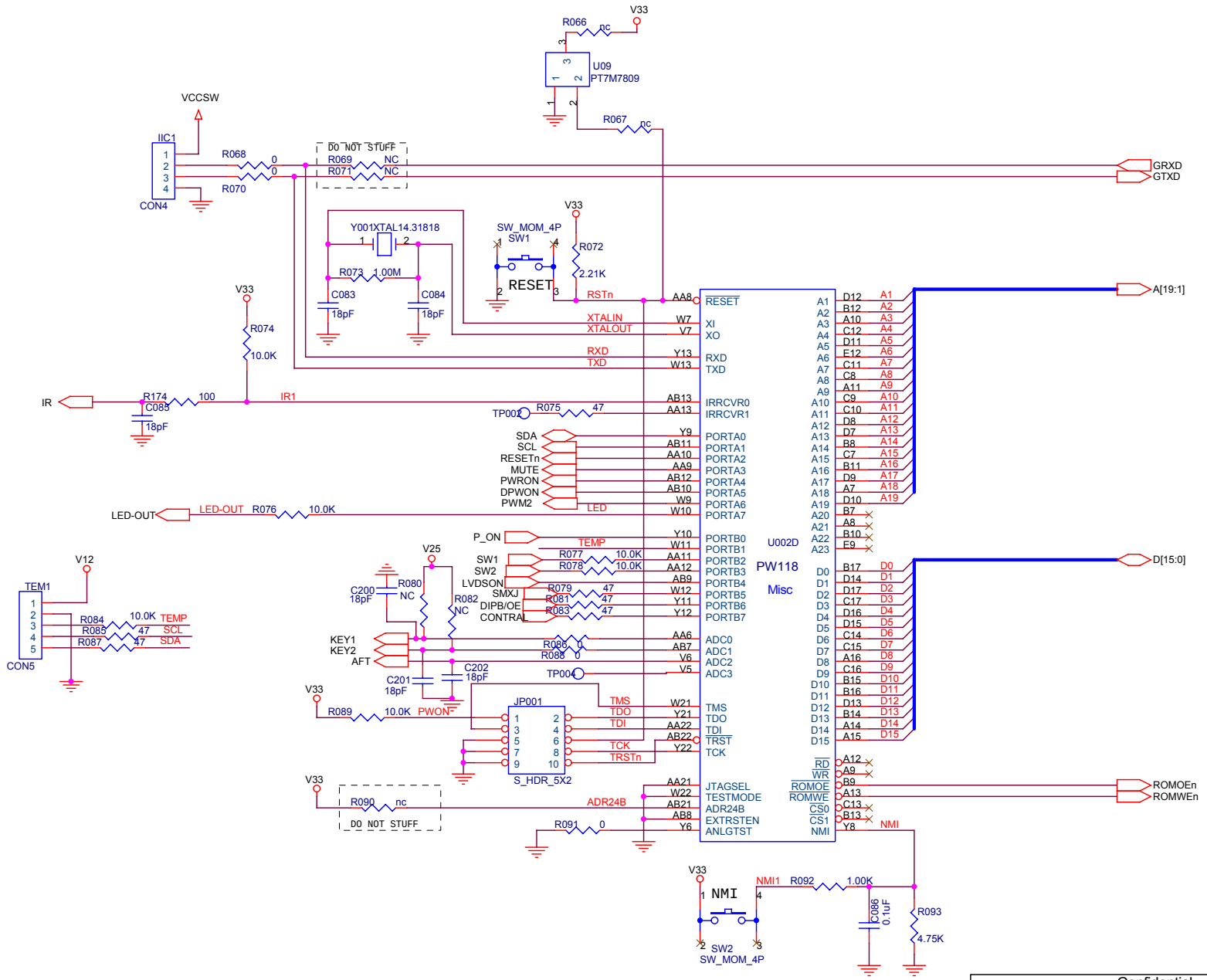
Title
Audio Processor and Amplifiers

Size	Document Number	Rev
A	900-0254-00 Trinity Production Reference Design <Variant Name>	A
Date: Monday, October 25, 2004	Sheet 4 of 15	



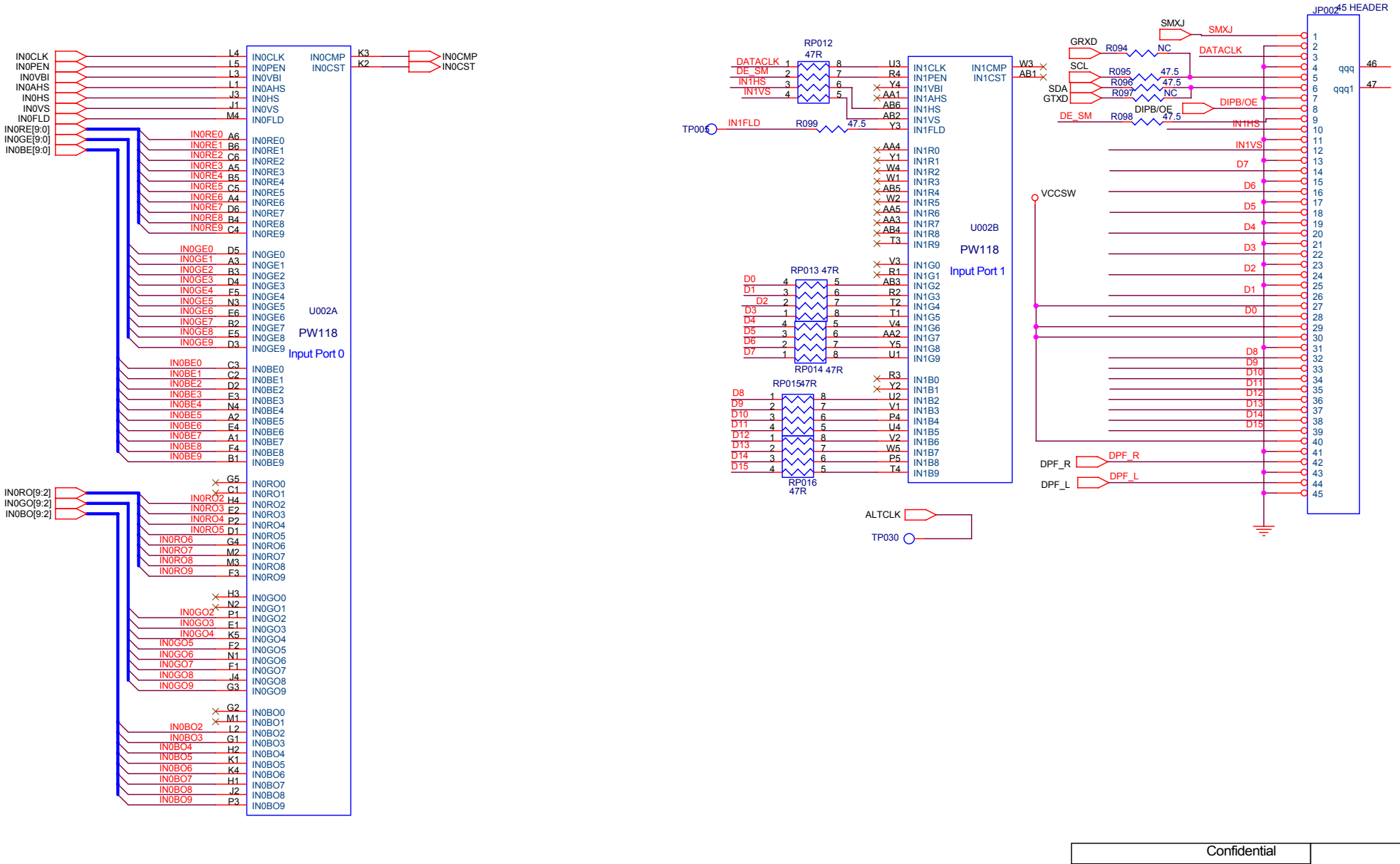
Confidential			
Title: Regulators and Capacitors for PW3200			
Size: B	Document Number: 900-0254-00 Trinity Production Reference Design		Rev: A
Date: Monday, October 25, 2004	Sheet 5 of 15		



Confidential

Title
PW318 Miscellaneous IO and Circuitry

Size	Document Number	Rev
B	900-0254-00 Trinity Production Reference Design <Variant Name>	A
Date: Monday, October 25, 2004	Sheet 6 of 15	



Confidential		
Title: PW318 Input Ports 0 and 1		
Size: B	Document Number: 900-0254-00 Trinity Production Reference Design <Variant Name>	Rev: A
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REV.	DATE	ECN NUMBER	DESCRIPTION OF CHANGE
00 -A	5-5-04	NA	Initial release.

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Title
Revision History

Size	Document Number	Rev
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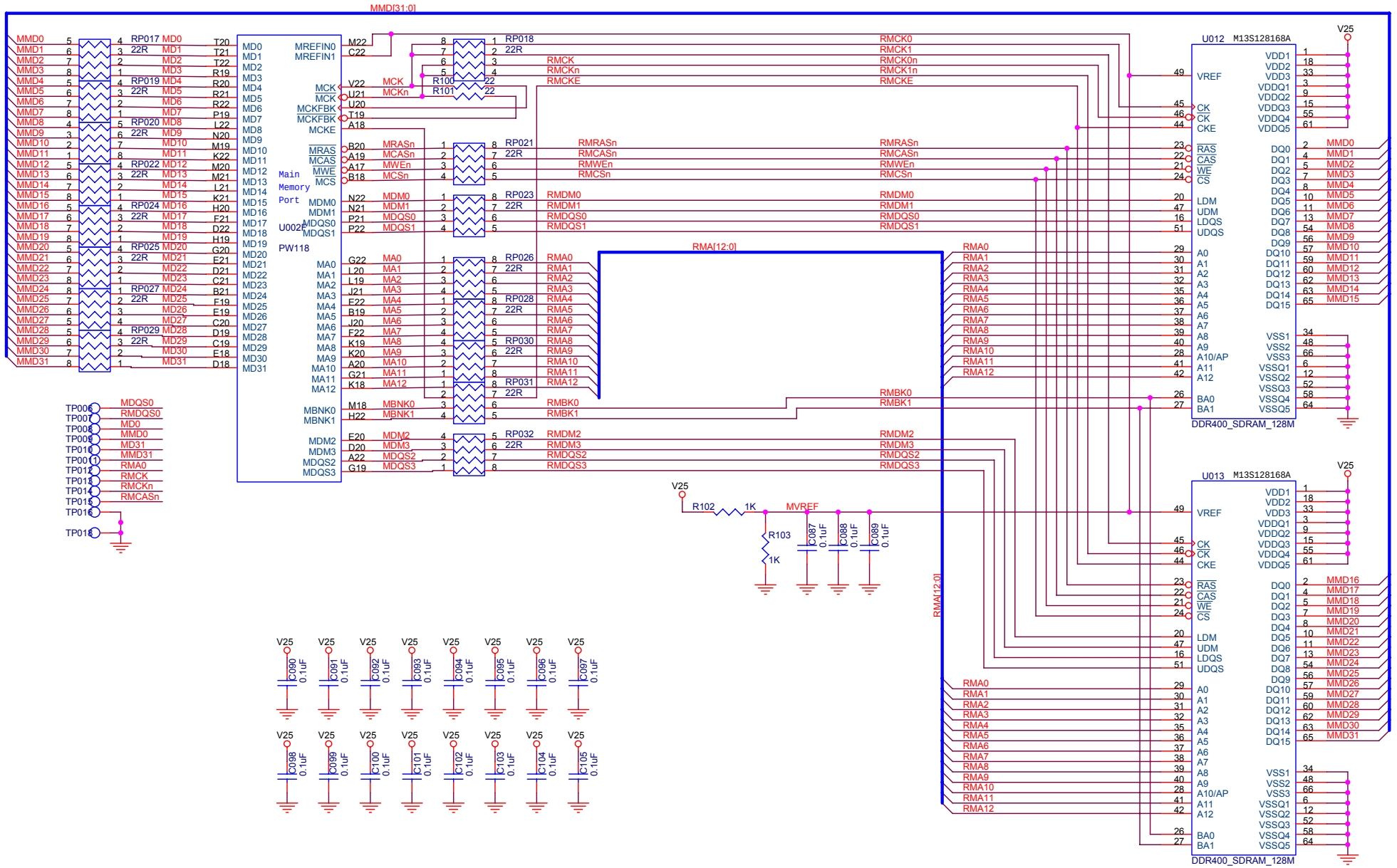
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RMA[12:0]
U002B
PW118
Main Memory Port
U012 M13S128168A
U013 M13S128168A
DDR400_SDRAM_128M
MVREF
R102 1K
R103 1K
V25
Confidential
Title
DDR SDRAM for PW218
Size B
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<Variant Name>
Rev A
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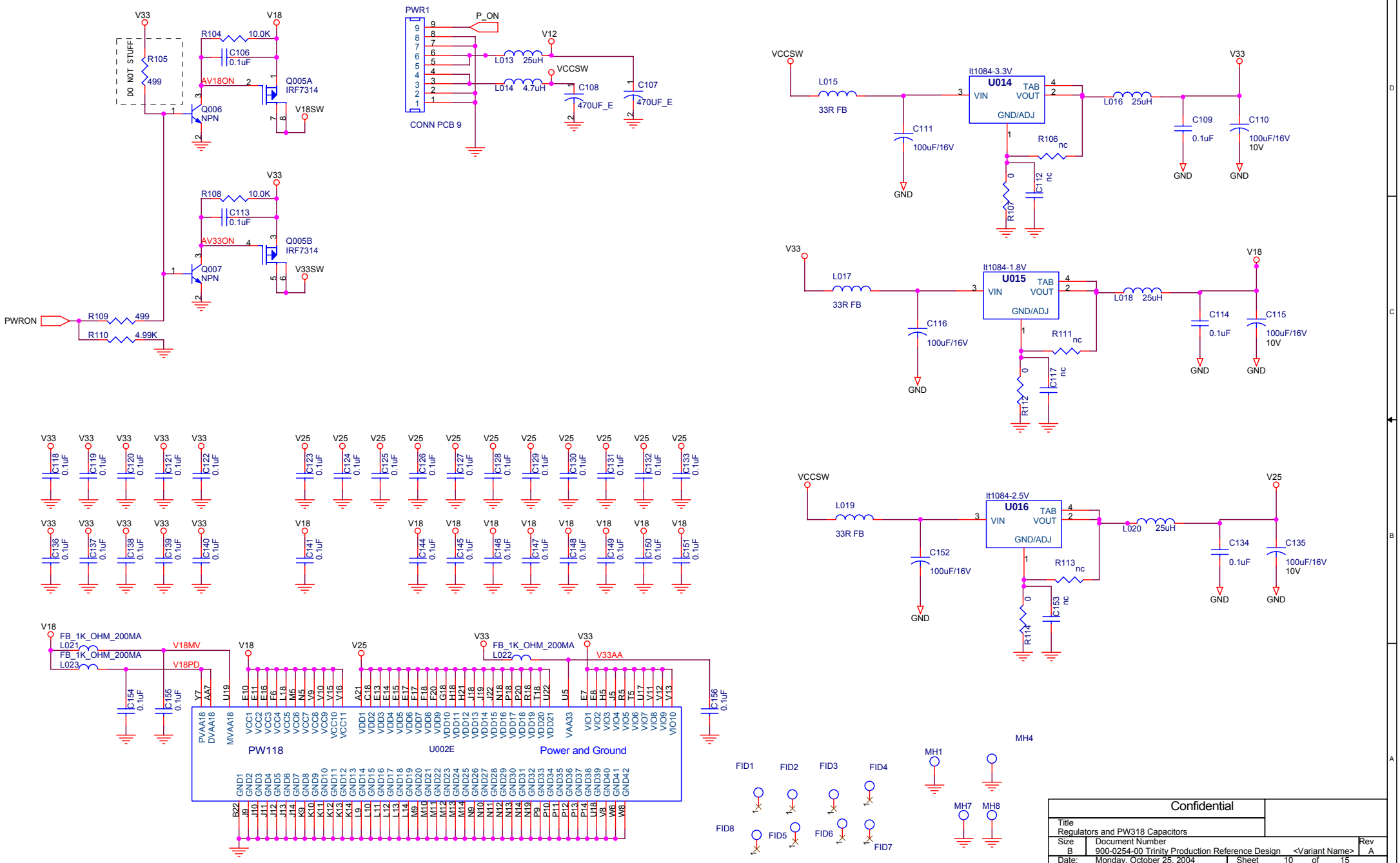
V33
V18
R104 10.0K
C106 0.1uF
R105 499
DO NOT STUFF
AV18ON
Q005A IRF7314
Q006 NPN
V18SW
R108 10.0K
C113 0.1uF
AV33ON
Q005B IRF7314
Q007 NPN
V33SW
PWRON
R109 499
R110 4.99K
PWR1
P_ON
CONN PCB 9
V12
L013 25uH
VCCSW
L014 4.7uH
C108 470UF_E
C107 470UF_E
VCCSW
L015 33R FB
lt1084-3.3V
U014
VIN
VOUT
TAB
GND/ADJ
C111 100uF/16V
L016 25uH
C109 0.1uF
C110 100uF/16V 10V
R106 nc
R107 0
C112 nc
GND
V33
L017 33R FB
lt1084-1.8V
U015
C116 100uF/16V
L018 25uH
C114 0.1uF
C115 100uF/16V 10V
R111 nc
R112 0
C117 nc
V18
L019 33R FB
lt1084-2.5V
U016
C152 100uF/16V
L020 25uH
C134 0.1uF
C135 100uF/16V 10V
R113 nc
R114 0
C153 nc
V25
C118 0.1uF
C119 0.1uF
C120 0.1uF
C121 0.1uF
C122 0.1uF
C123 0.1uF
C124 0.1uF
C125 0.1uF
C126 0.1uF
C127 0.1uF
C128 0.1uF
C129 0.1uF
C130 0.1uF
C131 0.1uF
C132 0.1uF
C133 0.1uF
C136 0.1uF
C137 0.1uF
C138 0.1uF
C139 0.1uF
C140 0.1uF
C141 0.1uF
C144 0.1uF
C145 0.1uF
C146 0.1uF
C147 0.1uF
C148 0.1uF
C149 0.1uF
C150 0.1uF
C151 0.1uF
FB_1K_OHM_200MA
L021
L023
V18MV
V18PD
C154 0.1uF
C155 0.1uF
L022
V33AA
C156 0.1uF
PW118
U002E
Power and Ground
PVAA18
DVAA18
MVAA18
VCC1
VCC2
VCC3
VCC4
VCC5
VCC6
VCC7
VCC8
VCC9
VCC10
VCC11
VDD1
VDD2
VDD3
VDD4
VDD5
VDD6
VDD7
VDD8
VDD9
VDD10
VDD11
VDD12
VDD13
VDD14
VDD15
VDD16
VDD17
VDD18
VDD19
VDD20
VDD21
VAA33
VIO1
VIO2
VIO3
VIO4
VIO5
VIO6
VIO7
VIO8
VIO9
VIO10
GND1
GND2
GND3
GND4
GND5
GND6
GND7
GND8
GND9
GND10
GND11
GND12
GND13
GND14
GND15
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GND21
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GND25
GND26
GND27
GND28
GND29
GND30
GND31
GND32
GND33
GND34
GND35
GND36
GND37
GND38
GND39
GND40
GND41
GND42
FID1
FID2
FID3
FID4
FID5
FID6
FID7
FID8
MH1
MH4
MH7
MH8
Confidential
Title
Regulators and PW318 Capacitors
Size
B
Document Number
900-0254-00 Trinity Production Reference Design
<Variant Name>
Rev
A
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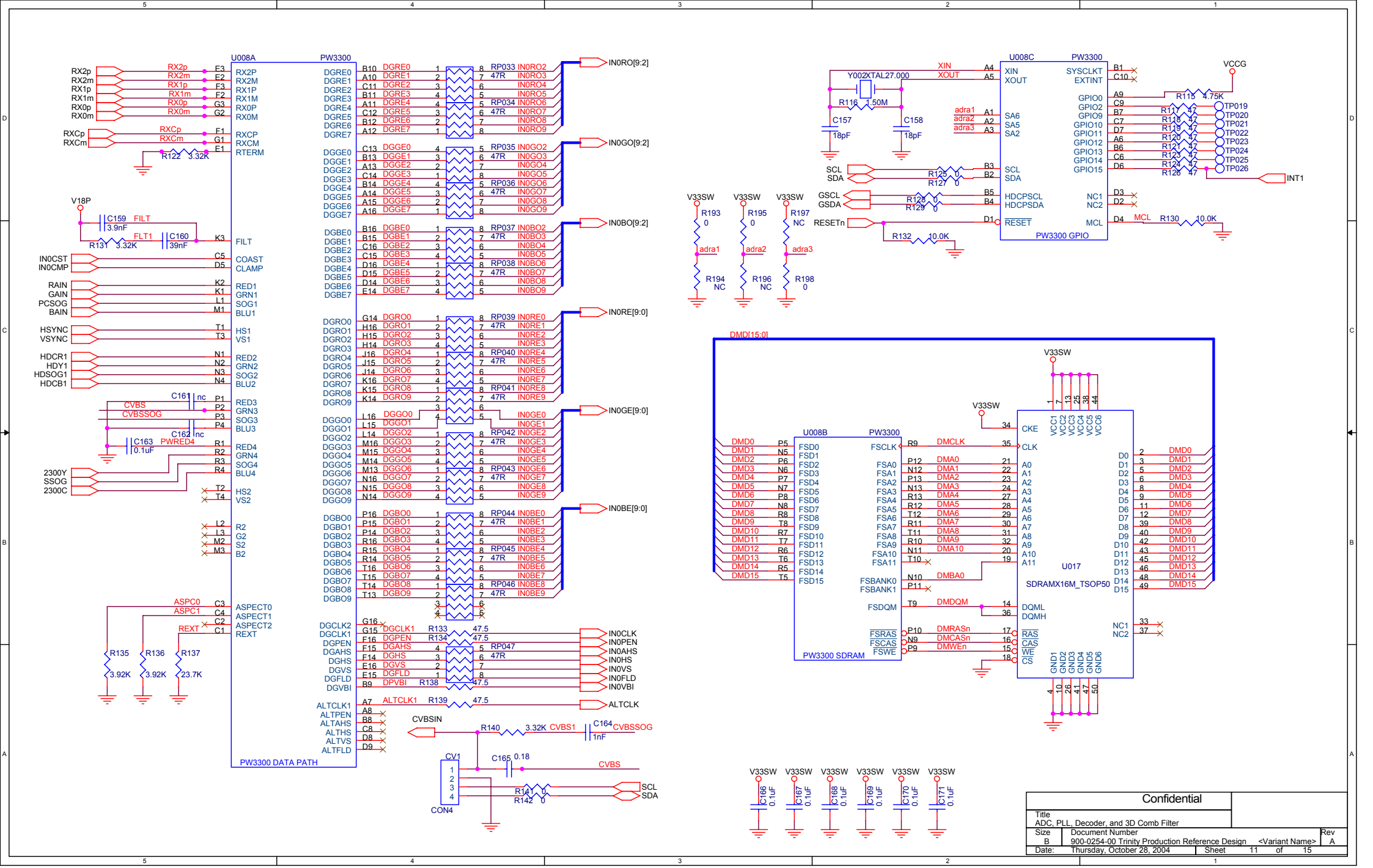
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RX2p
RX2m
RX1p
RX1m
RX0p
RX0m
RXCp
RXCm
R122 3.32K
V18P
C159 FILT 3.9nF
FLT1
C160 39nF
R131 3.32K
FILT
IN0CST
IN0CMP
COAST
CLAMP
RAIN
GAIN
PCSOG
BAIN
RED1
GRN1
SOG1
BLU1
HSYNC
VSYNC
HS1
VS1
HDCR1
HDY1
HDSOG1
HDCB1
RED2
GRN2
SOG2
BLU2
C161 nc
CVBS
CVBSSOG
C162 nc
C163 0.1uF
PWRED4
RED3
GRN3
SOG3
BLU3
RED4
GRN4
SOG4
BLU4
2300Y
SSOG
2300C
HS2
VS2
R2
G2
S2
B2
ASPC0
ASPC1
REXT
R135 3.92K
R136 3.92K
R137 23.7K
ASPECT0
ASPECT1
ASPECT2
REXT
PW3300 DATA PATH
DGRE0
DGRE1
DGRE2
DGRE3
DGRE4
DGRE5
DGRE6
DGRE7
RP033 47R IN0RO2
IN0RO3
IN0RO4
RP034 47R IN0RO5
IN0RO6
IN0RO7
IN0RO8
IN0RO9
IN0RO[9:2]
DGGE0
DGGE1
DGGE2
DGGE3
DGGE4
DGGE5
DGGE6
DGGE7
RP035 47R IN0GO2
IN0GO3
IN0GO4
IN0GO5
RP036 47R IN0GO6
IN0GO7
IN0GO8
IN0GO9
IN0GO[9:2]
DGBE0
DGBE1
DGBE2
DGBE3
DGBE4
DGBE5
DGBE6
DGBE7
RP037 47R IN0BO2
IN0BO3
IN0BO4
IN0BO5
RP038 47R IN0BO6
IN0BO7
IN0BO8
IN0BO9
IN0BO[9:2]
DGRO0
DGRO1
DGRO2
DGRO3
DGRO4
DGRO5
DGRO6
DGRO7
DGRO8
DGRO9
RP039 47R IN0RE0
IN0RE1
IN0RE2
IN0RE3
RP040 47R IN0RE4
IN0RE5
IN0RE6
IN0RE7
RP041 47R IN0RE8
IN0RE9
IN0RE[9:0]
DGGO0
DGGO1
DGGO2
DGGO3
DGGO4
DGGO5
DGGO6
DGGO7
DGGO8
DGGO9
RP042 47R IN0GE2
IN0GE3
IN0GE4
IN0GE5
RP043 47R IN0GE6
IN0GE7
IN0GE8
IN0GE9
IN0GE[9:0]
DGBO0
DGBO1
DGBO2
DGBO3
DGBO4
DGBO5
DGBO6
DGBO7
DGBO8
DGBO9
RP044 47R IN0BE0
IN0BE1
IN0BE2
IN0BE3
RP045 47R IN0BE4
IN0BE5
IN0BE6
IN0BE7
RP046 47R IN0BE8
IN0BE9
IN0BE[9:0]
DGCLK2
DGCLK1
DGPEN
DGAHS
DGHS
DGVS
DGFLD
DGVBI
R133 47.5
R134 47.5
RP047 47R
R138 47.5
IN0CLK
IN0PEN
IN0AHS
IN0HS
IN0VS
IN0FLD
IN0VBI
ALTCLK1
ALTPEN
ALTAHS
ALTHS
ALTVS
ALTFLD
R139 47.5
ALTCLK
CVBSIN
R140 3.32K
CVBS1
C164 1nF
CVBSSOG
CV1
CON4
C165 0.18
CVBS
R141 0
R142 0
SCL
SDA
U008C
PW3300
Y002XTAL27.000
XIN
XOUT
R116 1.50M
C157 18pF
C158 18pF
adra1
adra2
adra3
SCL
SDA
R125 0
R127 0
GSCL
GSDA
R128 0
R129 0
RESETn
R132 10.0K
PW3300 GPIO
SYSCLKT
EXTINT
GPIO0
GPIO2
GPIO9
GPIO10
GPIO11
GPIO12
GPIO13
GPIO14
GPIO15
HDCPSCL
HDCPSDA
RESET
NC1
NC2
MCL
R115 4.75K
TP019
TP020
TP021
TP022
TP023
TP024
TP025
TP026
INT1
R130 10.0K
V33SW
R193 0
R194 NC
R195 0
R196 NC
R197 NC
R198 0
DMD[15:0]
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PW3300 SDRAM
FSD0
FSD1
FSD2
FSD3
FSD4
FSD5
FSD6
FSD7
FSD8
FSD9
FSD10
FSD11
FSD12
FSD13
FSD14
FSD15
FSCLK
FSA0
FSA1
FSA2
FSA3
FSA4
FSA5
FSA6
FSA7
FSA8
FSA9
FSA10
FSA11
FSBANK0
FSBANK1
FSDQM
FSRAS
FSCAS
FSWE
DMCLK
DMA0
DMA1
DMA2
DMA3
DMA4
DMA5
DMA6
DMA7
DMA8
DMA9
DMA10
DMBA0
DMDQM
DMRASn
DMCASn
DMWEn
U017
SDRAMX16M_TSOP50
CKE
CLK
A0
A1
A2
A3
A4
A5
A6
A7
A8
A9
A10
A11
DQML
DQMH
RAS
CAS
WE
CS
D0
D1
D2
D3
D4
D5
D6
D7
D8
D9
D10
D11
D12
D13
D14
D15
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VCC2
VCC3
VCC4
VCC5
VCC6
GND1
GND2
GND3
GND4
GND5
GND6
C166 0.1uF
C167 0.1uF
C168 0.1uF
C169 0.1uF
C170 0.1uF
C171 0.1uF
Confidential
Title
ADC, PLL, Decoder, and 3D Comb Filter
Size
B
Document Number
900-0254-00 Trinity Production Reference Design
<Variant Name>
Rev
A
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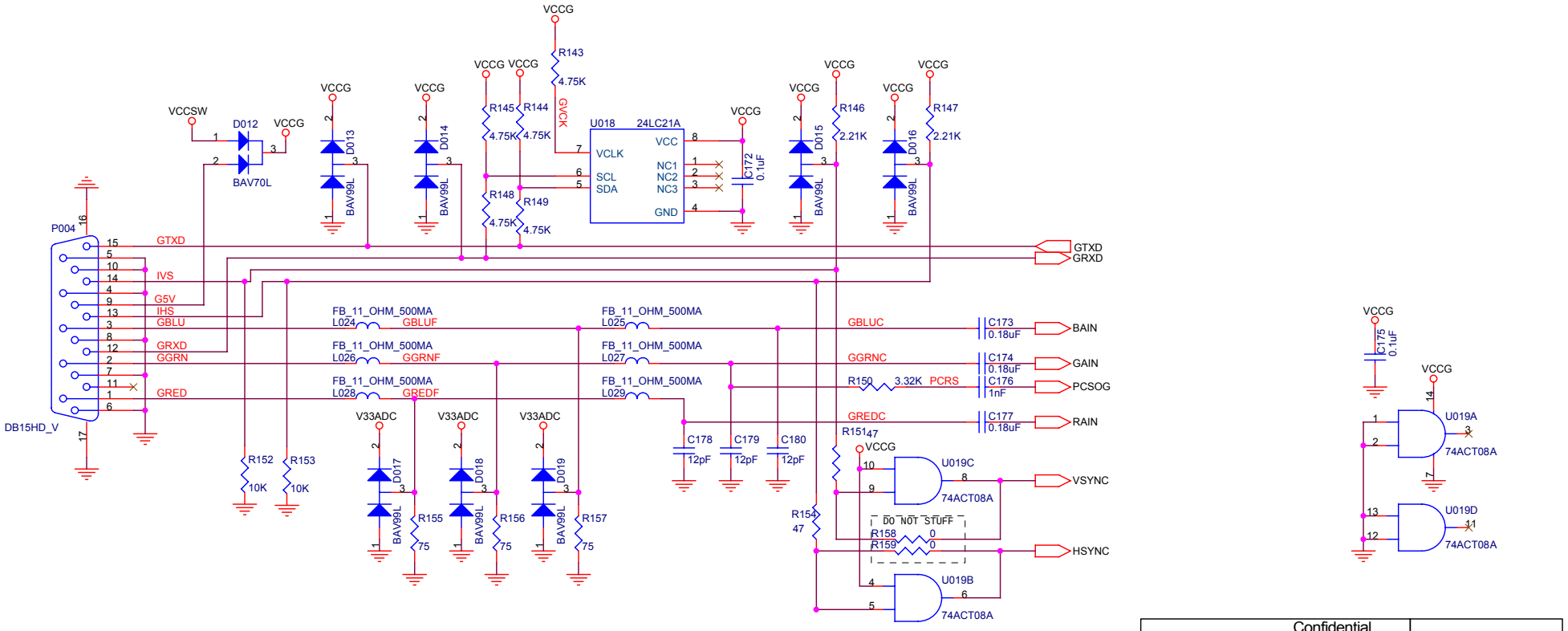

Confidential		
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Size: B	Document Number: 900-0254-00 Trinity Production Reference Design <Variant Name>	Rev: A
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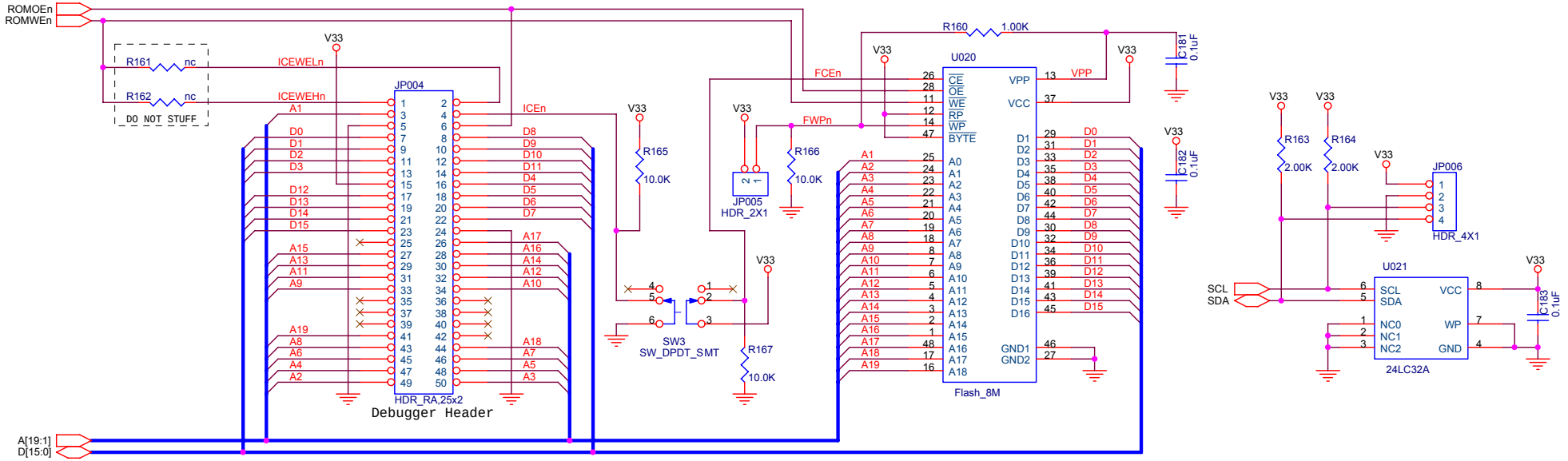
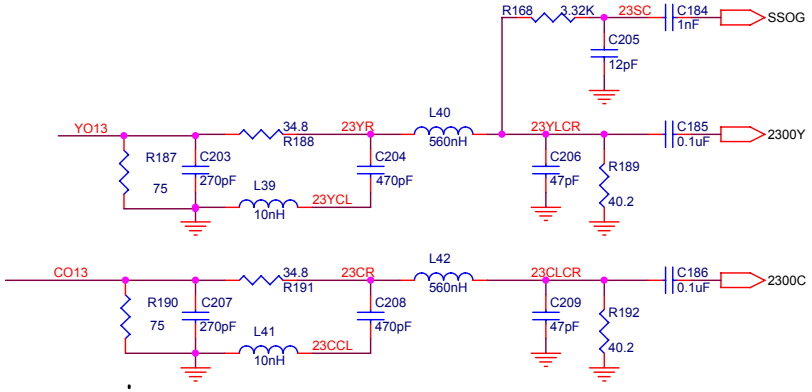
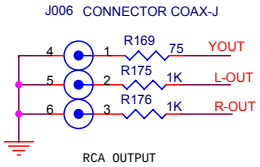
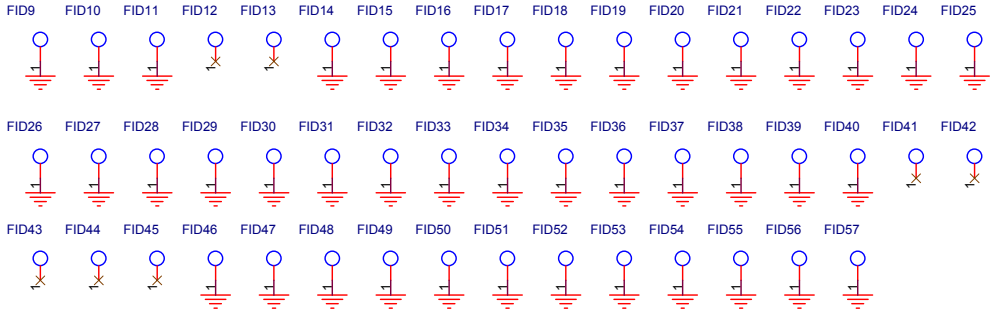


Confidential		
Title: Debug Header, Flash, and EEPROM		
Size: B	Document Number: 900-0254-00 Trinity Production Reference Design <Variant Name>	Rev: A
Date: Monday, October 25, 2004	Sheet 13 of 15	







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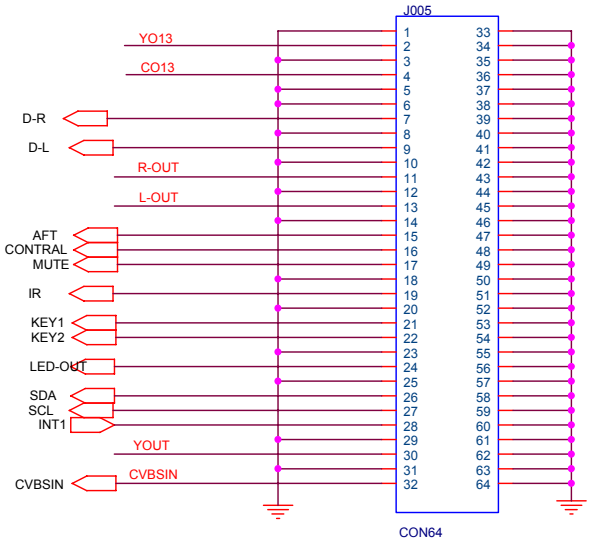
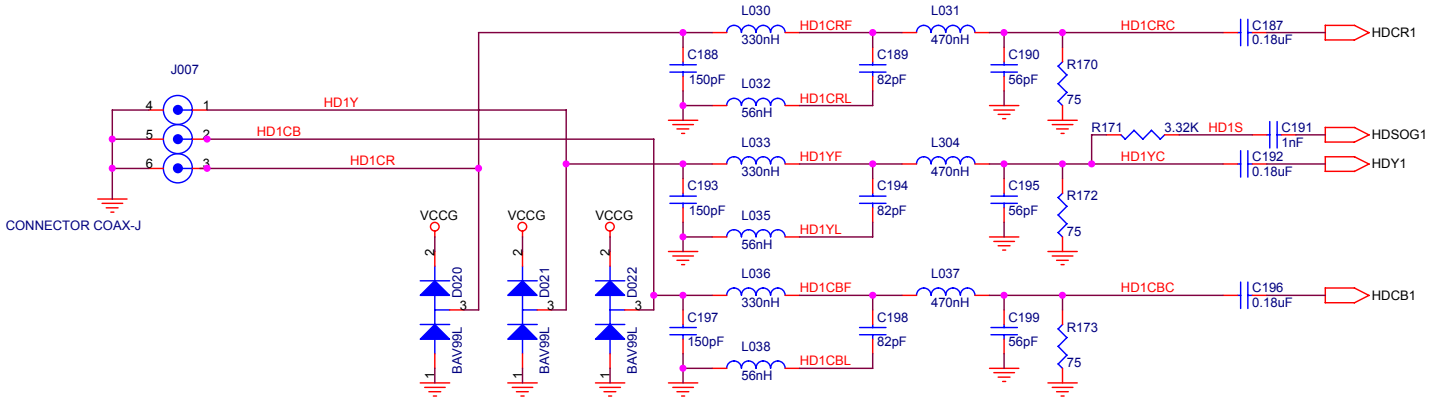


Confidential		
Title: Video and SCART Connectors		
Size: B	Document Number: 900-0254-00 Trinity Production Reference Design	Rev: A
Date: Thursday, October 28, 2004	Sheet 14 of 15	



Confidential		
Title Video Input Connectors		
Size B	Document Number 900-0254-00 Trinity Production Reference Design <Variant Name>	Rev A
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